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(54) Titre : INHIBITEURS 1,3-OXAZEPAN-2-ONE ET 1,3-DIAZEPAN-2-ONE DE LA 11 $\beta$ -HYDROXYSTEROIDE  
 DESHYDROGENASE (TYPE1)  
 (54) Title: 1,3-OXAZEPAN-2-ONE AND 1,3-DIAZEPAN-2-ONE INHIBITORS OF 11 $\beta$ -HYDROXYSTEROID  
 DEHYDROGENASE 1

(57) **Abrégé/Abstract:**

This invention relates to novel compounds of the Formula (I)1 (I\*), (I\*\*), (Ia), (Ib), (Ic), (Id), (Ie)1 (If), (Ig), pharmaceutically acceptable salts thereof, and pharmaceutical compositions thereof, which are useful for the therapeutic treatment of diseases associated with the modulation or inhibition of 11  $\beta$ -HSD1 in mammals. The invention further relates to pharmaceutical compositions of the novel compounds and methods for their use in the reduction or control of the production of Cortisol in a cell or the inhibition of the conversion of cortisone to Cortisol in a cell.

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(54) Title: 1,3-OXAZEPAN-2-ONE AND 1,3-DIAZEPAN-2-ONE INHIBITORS OF 11 $\beta$ -HYDROXYSTEROID DEHYDROGENASE 1(57) Abstract: This invention relates to novel compounds of the Formula (I)1 (I\*), (I\*\*), (Ia), (Ib), (Ic), (Id), (Ie)1 (If), (Ig), pharmaceutically acceptable salts thereof, and pharmaceutical compositions thereof, which are useful for the therapeutic treatment of diseases associated with the modulation or inhibition of 11  $\beta$ -HSD1 in mammals. The invention further relates to pharmaceutical compositions of the novel compounds and methods for their use in the reduction or control of the production of Cortisol in a cell or the inhibition of the conversion of cortisone to Cortisol in a cell.

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**1,3-OXAZEPAN-2-ONE AND 1,3-DIAZEPAN-2-ONE INHIBITORS OF 11 $\beta$ -  
HYDROXYSTEROID DEHYDROGENASE 1**

**RELATED APPLICATION**

This application claims the benefit of U.S. Provisional Application No. 61/065,301, filed on February 11, 2008. The entire teachings of the application are incorporated herein by reference.

**FIELD OF THE INVENTION**

The present invention relates to inhibitors of 11 $\beta$ -hydroxysteroid dehydrogenase type 1 (11 $\beta$ -HSD1), pharmaceutical compositions thereof and methods of using the same.

**BACKGROUND OF THE INVENTION**

Glucocorticoids, such as cortisol (hydrocortisone), are steroid hormones that regulate fat metabolism, function and distribution, and play a role in carbohydrate, protein and fat metabolism. Glucocorticoids are also known to have physiological effects on development, neurobiology, inflammation, blood pressure, metabolism, and programmed cell death. Cortisol and other corticosteroids bind both the glucocorticoid receptor (GR) and the mineralocorticoid receptor (MR), which are members of the nuclear hormone receptor superfamily and have been shown to mediate cortisol function in vivo. These receptors directly modulate transcription via DNA-binding zinc finger domains and transcriptional activation domains.

Until recently, the major determinants of glucocorticoid action were attributed to three primary factors: (1) circulating levels of glucocorticoid (driven primarily by the hypothalamic-pituitary-adrenal (HPA) axis); (2) protein binding of glucocorticoids in circulation; and (3) intracellular receptor density inside target tissues. Recently, a fourth determinant of glucocorticoid function has been identified: tissue-specific pre-receptor metabolism by glucocorticoid-activating and -inactivating enzymes. These 11 $\beta$ -hydroxysteroid dehydrogenase (11 $\beta$ -HSD) pre-receptor control enzymes modulate activation of GR and MR by regulation of glucocorticoid hormones. To date, two distinct isozymes of 11-beta-HSD have been cloned and characterized: 11 $\beta$ -HSD1 (also known as 11-beta-HSD type 1, 11betaHSD1, HSD11B1, HDL, and

HSD11L) and 11 $\beta$ -HSD2. 11 $\beta$ -HSD1 is a bi-directional oxidoreductase that regenerates active cortisol from inactive 11-keto forms, whereas 11 $\beta$ -HSD2 is a unidirectional dehydrogenase that inactivates biologically active cortisol by converting it into cortisone.

The two isoforms are expressed in a distinct tissue-specific fashion, consistent with the differences in their physiological roles. 11 $\beta$ -HSD1 is widely distributed in rat and human tissues; expression of the enzyme and corresponding mRNA have been detected in human liver, adipose tissue, lung, testis, bone and ciliary epithelium. In adipose tissue, increased cortisol concentrations stimulate adipocyte differentiation and may play a role in promoting visceral obesity. In the eye, 11 $\beta$ -HSD1 may regulate intraocular pressure and may contribute to glaucoma; some data suggest that inhibition of 11 $\beta$ -HSD1 may cause a drop in intraocular pressure in patients with intraocular hypertension (Kotelevstev et al. (1997), Proc. Natl. Acad. Sci. USA 94(26):14924-9). Although 11 $\beta$ -HSD1 catalyzes both 11-beta-dehydrogenation and the reverse 11-oxoreduction reaction, 11 $\beta$ -HSD1 acts predominantly as a NADPH-dependent oxoreductase in intact cells and tissues, catalyzing the formation of active cortisol from inert cortisone (Low et al. (1994) J. Mol. Endocrin. 13: 167-174). In contradistinction, 11 $\beta$ -HSD2 expression is found mainly in mineralocorticoid target tissues such as kidney (cortex and medulla), placenta, sigmoid and rectal colon, salivary gland and colonic epithelial cell lines. 11 $\beta$ -HSD2 acts as an NAD-dependent dehydrogenase catalyzing the inactivation of cortisol to cortisone (Albiston et al. (1994) Mol. Cell. Endocrin. 105: R11-R17), and has been shown to protect the MR from glucocorticoid excess (e.g., high levels of receptor-active cortisol) (Blum, et al. (2003) Prog. Nucl. Acid Res. Mol. Biol. 75:173-216).

Mutations in either the 11 $\beta$ -HSD1 or the 11 $\beta$ -HSD2 genes result in human pathology. For example, individuals with mutations in 11 $\beta$ -HSD2 are deficient in this cortisol-inactivation activity and, as a result, present with a syndrome of apparent mineralocorticoid excess (also referred to as 'SAME') characterized by hypertension, hypokalemia, and sodium retention (Edwards et al. (1988) Lancet 2: 986-989; Wilson et al. (1998) Proc. Natl. Acad. Sci. 95: 10200-10205). Similarly, mutations in 11 $\beta$ -HSD1 and in the gene encoding a co-localized NADPH-generating enzyme, hexose 6-phosphate dehydrogenase (H6PD), can result in cortisone reductase deficiency (CRD); these individuals present with ACTH-mediated androgen excess (hirsutism,

menstrual irregularity, hyperandrogenism), a phenotype resembling polycystic ovary syndrome (PCOS) (Draper et al. (2003) *Nat. Genet.* 34: 434-439).

Notably, disruption of homeostasis in the HPA axis by either deficient or excess secretion or action results in Cushing's syndrome or Addison's disease, respectively (Miller and Chrousos (2001) *Endocrinology and Metabolism*, eds. Felig and Frohman (McGraw-Hill, New York), 4<sup>th</sup> Ed.: 387-524). Patients with Cushing's syndrome or receiving glucocorticoid therapy develop reversible visceral fat obesity. The phenotype of Cushing's syndrome patients closely resembles that of Reaven's metabolic syndrome (also known as Syndrome X or insulin resistance syndrome), the symptoms of which include visceral obesity, glucose intolerance, insulin resistance, hypertension, type 2 diabetes and hyperlipidemia (Reaven (1993) *Ann. Rev. Med.* 44: 121-131). Although the role of glucocorticoids in human obesity is not fully characterized, there is mounting evidence that 11 $\beta$ -HSD1 activity plays an important role in obesity and metabolic syndrome (Bujalska et al. (1997) *Lancet* 349: 1210-1213); (Livingstone et al. (2000) *Endocrinology* 131: 560-563; Rask et al. (2001) *J. Clin. Endocrinol. Metab.* 86: 1418-1421; Lindsay et al. (2003) *J. Clin. Endocrinol. Metab.* 88: 2738-2744; Wake et al. (2003) *J. Clin. Endocrinol. Metab.* 88: 3983-3988).

Data from studies in mouse transgenic models supports the hypothesis that adipocyte 11 $\beta$ -HSD1 activity plays a central role in visceral obesity and metabolic syndrome (Alberts et al. (2002) *Diabetologia.* 45(11): 1526-32). Over-expression in adipose tissue of 11 $\beta$ -HSD1 under the control of the  $\alpha$ P2 promoter in transgenic mice produced a phenotype remarkably similar to human metabolic syndrome (Masuzaki et al. (2001) *Science* 294: 2166-2170; Masuzaki et al. (2003) *J. Clinical Invest.* 112: 83-90). Moreover, the increased activity of 11 $\beta$ -HSD1 in these mice is very similar to that observed in human obesity (Rask et al. (2001) *J. Clin. Endocrinol. Metab.* 86: 1418-1421). In addition, data from studies with 11 $\beta$ -HSD1-deficient mice produced by homologous recombination demonstrate that the loss of 11 $\beta$ -HSD1 leads to an increase in insulin sensitivity and glucose tolerance due to a tissue-specific deficiency in active glucocorticoid levels (Kotelevstev et al. (1997) *Proc. Natl. Acad. Sci.* 94: 14924-14929; Morton et al. (2001) *J. Biol. Chem.* 276: 41293-41300; Morton et al. (2004) *Diabetes* 53: 931-938).

The published data supports the hypothesis that increased expression of 11 $\beta$ -HSD1 contributes to increased local conversion of cortisone to cortisol in adipose tissue and hence that 11 $\beta$ -HSD1 plays a role in the pathogenesis of central obesity

and the appearance of the metabolic syndrome in humans (Engeli, et al., (2004) *Obes. Res.* 12: 9-17). Therefore, 11 $\beta$ -HSD1 is a promising pharmaceutical target for the treatment of the metabolic syndrome (Masuzaki, et al., (2003) *Curr. Drug Targets Immune Endocr. Metabol. Disord.* 3: 255-62). Furthermore, inhibition of 11 $\beta$ -HSD1 activity may prove beneficial in treating numerous glucocorticoid-related disorders. For example, 11 $\beta$ -HSD1 inhibitors could be effective in combating obesity and/or aspects of the metabolic syndrome cluster, including glucose intolerance, insulin resistance, hyperglycemia, hypertension, and/or hyperlipidemia (Kotelevstev et al. (1997) *Proc. Natl. Acad. Sci.* 94: 14924-14929; Morton et al. (2001) *J. Biol. Chem.* 276: 41293-41300; Morton et al. (2004) *Diabetes* 53: 931-938). In addition, inhibition of 11 $\beta$ -HSD1 activity may have beneficial effects on the pancreas, including the enhancement of glucose-stimulated insulin release (Billaudel and Sutter (1979) *Horm. Metab. Res.* 11: 555-560; Ogawa et al. (1992) *J. Clin. Invest.* 90: 497-504; Davani et al. (2000) *J. Biol. Chem.* 275: 34841-34844).

Furthermore, given that inter-individual differences in general cognitive function have been linked to variability in the long-term exposure to glucocorticoids (Lupien et al. (1998) *Nat. Neurosci.* 1: 69-73) and dysregulation of the HPA axis resulting in chronic exposure to glucocorticoid excess in certain brain subregions has been theorized to contribute to the decline of cognitive function (McEwen and Sapolsky (1995) *Curr. Opin. Neurobiol.* 5: 205-216), one might predict that inhibition of 11 $\beta$ -HSD1 could reduce exposure to glucocorticoids in the brain and thereby protect against deleterious glucocorticoid effects on neuronal function, including cognitive impairment, dementia, and/or depression. Notably, it is known that stress and glucocorticoids influence cognitive function (de Quervain et al. (1998) *Nature* 394: 787-790); and it has been shown that 11 $\beta$ -HSD1, through its control of glucocorticoid action in the brain, may have effects on neurotoxicity (Rajan et al. (1996) *Neuroscience* 16: 65-70; Seckl (2000) *Neuroendocrinol.* 18:49-99).

There is also evidence that glucocorticoids and 11 $\beta$ -HSD1 play a role in regulation of intra-ocular pressure (IOP) (Stokes et al. (2000) *Invest. Ophthalmol. Vis. Sci.* 41: 1629-1683; Rauz et al. (2001) *Invest. Ophthalmol. Vis. Sci.* 42: 2037-2042); if left untreated, elevated IOP can lead to partial visual field loss and eventually blindness. Thus, inhibition of 11 $\beta$ -HSD1 in the eye could reduce local glucocorticoid concentrations and IOP, and 11 $\beta$ -HSD1 hence could potentially be used to treat glaucoma and other visual disorders.

Transgenic aP2-11 $\beta$ HSD1 mice exhibit high arterial blood pressure and have increased sensitivity to dietary salt. Moreover, plasma angiotensinogen levels are elevated in the transgenic mice, as are angiotensin II and aldosterone; and treatment of the mice with an angiotensin II antagonist alleviates the hypertension (Masuzaki et al. (2003) *J. Clinical Invest.* 112: 83-90). This suggests that hypertension may be caused or exacerbated by 11 $\beta$ -HSD1 activity. Thus, 11 $\beta$ -HSD1 inhibitors may be useful for treatment of hypertension and hypertension-related cardiovascular disorders. Inhibition of 11 $\beta$ -HSD1 in mature adipocytes is also expected to attenuate secretion of plasminogen activator inhibitor 1 (PAI-1), which is an independent cardiovascular risk factor (Halleux et al. (1999) *J. Clin. Endocrinol. Metab.* 84: 4097-4105).

Glucocorticoids can have adverse effects on skeletal tissues; and prolonged exposure to even moderate glucocorticoid doses can result in osteoporosis (Cannalis (1996) *J. Clin. Endocrinol. Metab.* 81: 3441-3447). In addition, 11 $\beta$ -HSD1 has been shown to be present in cultures of human primary osteoblasts as well as cells from adult bone (Cooper et al. (2000) *Bone* 27: 375-381), and the 11 $\beta$ -HSD1 inhibitor carbenoxolone has been shown to attenuate the negative effects of glucocorticoids on bone nodule formation (Bellows et al. (1998) *Bone* 23: 119-125). Thus, inhibition of 11 $\beta$ -HSD1 is predicted to decrease the local glucocorticoid concentration within osteoblasts and osteoclasts, thereby producing beneficial effects in various forms of bone disease, including osteoporosis.

11 $\beta$ -HSD1 inhibitors may also be useful for immunomodulation. Although glucocorticoids are perceived to suppress the immune system, in actuality, there is a complex, dynamic interaction between the HPA axis and the immune system (Rook (1999) *Baillier's Clin. Endocrinol. Metab.* 13: 576-581). Glucocorticoids play a role in modulating the balance between cell-mediated and humoral immune response, with high glucocorticoid activity normally associated with a humoral response. Inhibition of 11 $\beta$ -HSD1 therefore can be used as a means of shifting the immune response towards a cell-mediated response. Certain disease states, such as tuberculosis, leprosy (Hansen's disease) and psoriasis, trigger immune responses that are biased towards a humoral response whereas the more effective immune response may be a cell-mediated response. Hence, 11 $\beta$ -HSD1 inhibitors may be useful for treating such diseases.

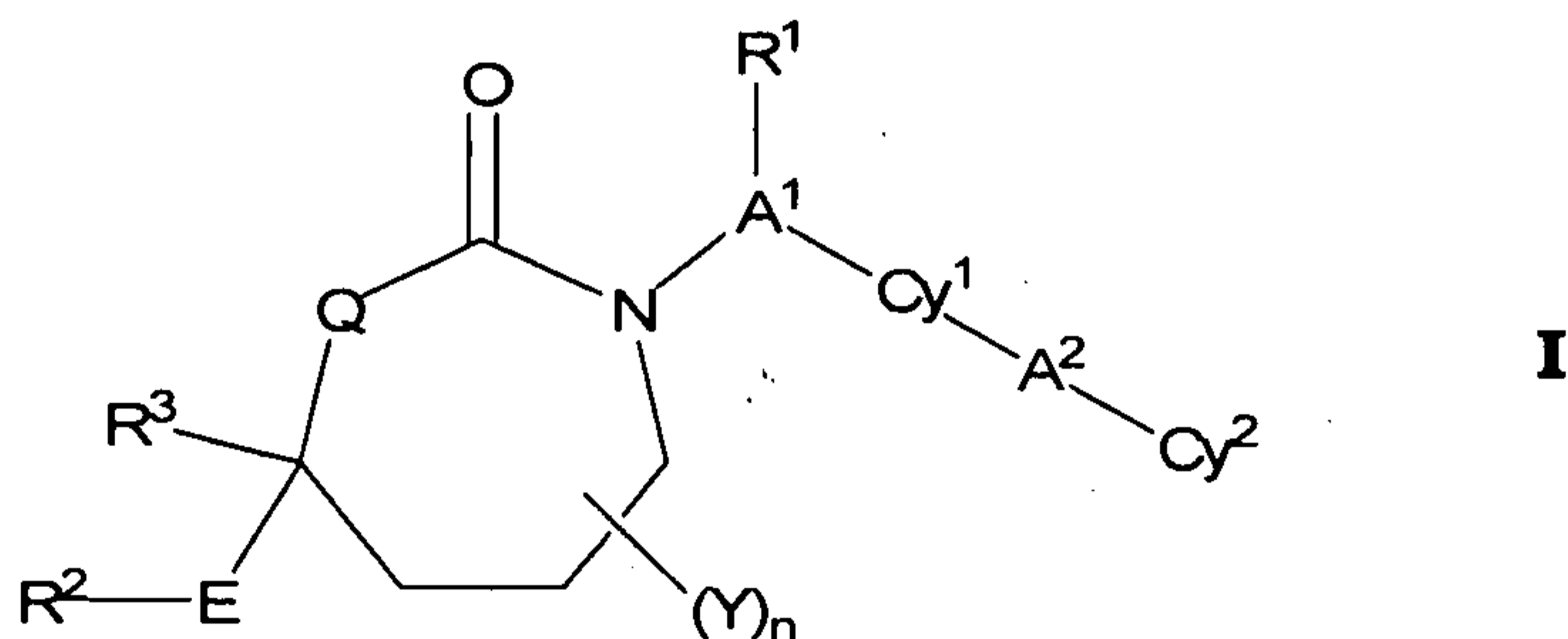
It has been reported that glucocorticoids inhibit wound healing, especially in diabetic patients with ulcers (Bitar et al. (1999) *J. Surg. Res.* 82: 234-243; Bitar et al.

(1999) Surgery 125: 594-601; Bitar (2000) Surgery 127: 687-695; Bitar (1998) Am. J. Pathol. 152: 547-554). Patients that exhibit impaired glucose tolerance and/or type 2 diabetes often also have impaired wound healing. Glucocorticoids have been shown to increase the risk of infection and delay wound healing (Anstead (1998) Adv. Wound Care 11:277-285). Moreover, there is a correlation between elevated levels of cortisol in wound fluid and non-healing wounds (EP Patent App. No. 0 902 288). Recent published patent applications have suggested that certain 11 $\beta$ -HSD1 inhibitors may be useful for promoting wound healing (PCT/US2006/043,951).

As evidenced herein, there is a continuing need for new and improved drugs that inhibit 11 $\beta$ -HSD1. The novel compounds of the instant invention are effective inhibitors of 11 $\beta$ -HSD1.

### SUMMARY OF THE INVENTION

It has now been found that compounds of Formula I or pharmaceutically acceptable salts or prodrugs thereof, are effective inhibitors of 11 $\beta$ -HSD1. Formula I and its constituent members are defined herein as follows:



R<sup>1</sup> is (a) absent or (b) is selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl or (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=N)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-,



$(R^4)_2NC(=O)NHS(=O)_2^-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O^-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4^-$ , aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

$A^1$  is (a) a bond, or (b)  $(C_1-C_3)$ alkylene,  $CH_2CH_2O$ , wherein the oxygen is attached to  $Cy^1$ , or  $CH_2C(=O)$ , wherein the carbonyl carbon is attached to  $Cy^1$ ;

$Cy^1$  is aryl, heteroaryl, monocyclic cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl, hydroxy $(C_3-C_6)$ cycloalkyl,  $(C_4-C_7)$ cycloalkylalkyl,  $(C_2-C_6)$ alkenyl, halo $(C_2-C_6)$ alkenyl, hydroxy $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl $(C_2-C_4)$ alkynyl, halo $(C_1-C_6)$ alkyl, halo $(C_3-C_6)$ cycloalkyl, halo $(C_4-C_7)$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,  $(C_4-C_7)$ cycloalkylalkoxy, halo $(C_1-C_6)$ alkoxy, halo $(C_3-C_6)$ cycloalkoxy, halo $(C_4-C_7)$ cycloalkylalkoxy,  $(C_1-C_6)$ alkylthio,  $(C_3-C_6)$ cycloalkylthio,  $(C_4-C_7)$ cycloalkylalkylthio, halo $(C_1-C_6)$ alkylthio, halo $(C_3-C_6)$ cycloalkylthio, halo $(C_4-C_7)$ cycloalkylalkylthio,  $(C_1-C_6)$ alkanesulfinyl,  $(C_3-C_6)$ cycloalkanesulfinyl,  $(C_4-C_7)$ cycloalkylalkanesulfinyl, halo $(C_1-C_6)$ alkane-sulfinyl, halo $(C_3-C_6)$ cycloalkanesulfinyl, halo $(C_4-C_7)$ cycloalkylalkanesulfinyl,  $(C_1-C_6)$ alkanesulfonyl,  $(C_3-C_6)$ cycloalkanesulfonyl,  $(C_4-C_7)$ cycloalkylalkanesulfonyl, halo $(C_1-C_6)$ alkanesulfonyl, halo $(C_3-C_6)$ cycloalkanesulfonyl, halo $(C_4-C_7)$ cycloalkylalkanesulfonyl,  $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ ,  $(C_1-C_6)$ alkylaminocarbonyl, di $(C_1-C_6)$ alkylaminocarbonyl,  $(C_1-C_3)$ alkoxy $(C_1-C_3)$ alkylaminocarbonyl, heterocyclylcarbonyl,  $(C_1-C_6)$ alkylaminosulfonyl, di $(C_1-C_6)$ alkylaminosulfonyl, heterocyclylsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonylamino,  $(C_1-C_6)$ alkylsulfonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy, heteroaryl, oxo, amino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl, di $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl amino $(C_2-C_6)$ alkoxy,  $(C_1-C_6)$ alkylamino $(C_2-C_6)$ alkoxy, di $(C_1-C_6)$ alkylamino $(C_2-C_6)$ alkoxyl and  $(C_1-C_6)$ alkylcarbonyl;

$A^2$  is (a) a bond, O, S or  $NR^4$ ; or (b)  $(C_1-C_3)$ alkylene or  $(C_1-C_2)$ alkyleneoxy, each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo;

Cy<sup>2</sup> is (a) hydrogen or (b) aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

Y is (C<sub>1</sub>-C<sub>6</sub>)alkyl or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl;

n is 0, 1 or 2;

E is (a) a bond or (b) (C<sub>1</sub>-C<sub>3</sub>)alkylene or (C<sub>1</sub>-C<sub>2</sub>)alkylenyloxy, wherein the O is attached to R<sup>2</sup>, each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo;

$R^2$  is (C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with up to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

$R^3$  is selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl and (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-,

$R^4C(=O)NHS(=O)_2^-$ ,  $R^4C(=O)NHS(=O)_2O^-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  
 $R^4OC(=O)NHS(=O)_2^-$ ,  $R^4OC(=O)NHS(=O)_2O^-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2^-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O^-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ ,  
heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo),  
heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy,  
alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H,  
CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-  
amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio,  
alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-  
monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino  
(which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio,  
alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-  
monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

Q is O or NR<sup>5</sup>;

R<sup>4</sup> is independently selected from H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl and (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl; and

R<sup>5</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a pharmaceutical composition comprising: i) a pharmaceutically acceptable carrier or diluent; and ii) compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig; or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof

Another embodiment of the invention is a method of inhibiting 11β-HSD1 activity comprising the step of administering to a mammal in need of such treatment an effective amount of a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig, or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment of the invention is a method of treating a subject with a disease associated with the activity or expression of 11β-HSD1, comprising the step of administering to the subject an effective amount of a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig, or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment of the invention is the use of a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig, or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof for the manufacture of a medicament for inhibiting 11 $\beta$ -HSD1 activity in a mammal in need of such treatment.

Another embodiment of the invention is the use of a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig, or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof for the manufacture of a medicament for treating a subject with a disease associated with the activity or expression of 11 $\beta$ -HSD1.

Another embodiment of the invention is a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof for use in inhibiting 11 $\beta$ -HSD1 activity in a mammal in need of such treatment.

Another embodiment of the invention is a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig, or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof for use in for treating a subject with a disease associated with the activity or expression of 11 $\beta$ -HSD1.

The present invention further provides methods of inhibiting 11 $\beta$ -HSD1 by contacting 11 $\beta$ -HSD1 with a compound of Formula I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If or Ig of the invention.

The present invention further provides methods of inhibiting or reducing the conversion of cortisone to cortisol in a cell using a compound of Formula I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If or Ig of the invention.

The present invention further provides methods of inhibiting or reducing production of cortisol in a cell using a compound of Formula I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, or If of the invention.

The present invention further provides methods of increasing insulin sensitivity in a subject in need thereof using a compound of Formula I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If or Ig of the invention.

### **DETAILED DESCRIPTION OF THE INVENTION**

Another embodiment is a compound of Structural Formula I, wherein

R<sup>3</sup> is selected from substituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, or optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkenyl, optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkynyl and optionally substituted (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>2</sub>-C<sub>3</sub>)alkyl, wherein each substituted group represented by R<sup>3</sup> has up to four groups

independently selected from fluorine, cyano, oxo,  $R^4$ ,  $R^4O-$ ,  $(R^4)_2N-$ ,  $R^4O_2C-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4$ ,  $(R^4)_2NS(=O)_2O$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ , heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

and the remaining values are as defined for Formula I above or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Structural Formula I, wherein  $R^2$  is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl, hydroxy $(C_3-C_6)$ cycloalkyl,  $(C_4-C_7)$ cycloalkylalkyl,  $(C_2-C_6)$ alkenyl, halo $(C_2-C_6)$ alkenyl, hydroxy $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl $(C_2-C_4)$ alkynyl, halo $(C_1-C_6)$ alkyl, halo $(C_3-C_6)$ cycloalkyl, halo $(C_4-C_7)$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,  $(C_4-C_7)$ cycloalkylalkoxy, halo $(C_1-C_6)$ alkoxy, halo $(C_3-C_6)$ cycloalkoxy, halo $(C_4-C_7)$ cycloalkylalkoxy,  $(C_1-C_6)$ alkylthio,  $(C_3-C_6)$ cycloalkylthio,  $(C_4-C_7)$ cycloalkylalkylthio, halo $(C_1-C_6)$ alkylthio, halo $(C_3-C_6)$ cycloalkylthio, halo $(C_4-C_7)$ cycloalkylalkylthio,  $(C_1-C_6)$ alkanesulfinyl,  $(C_3-C_6)$ cycloalkanesulfinyl,  $(C_4-C_7)$ cycloalkylalkanesulfinyl, halo $(C_1-C_6)$ alkane-sulfinyl, halo $(C_3-$

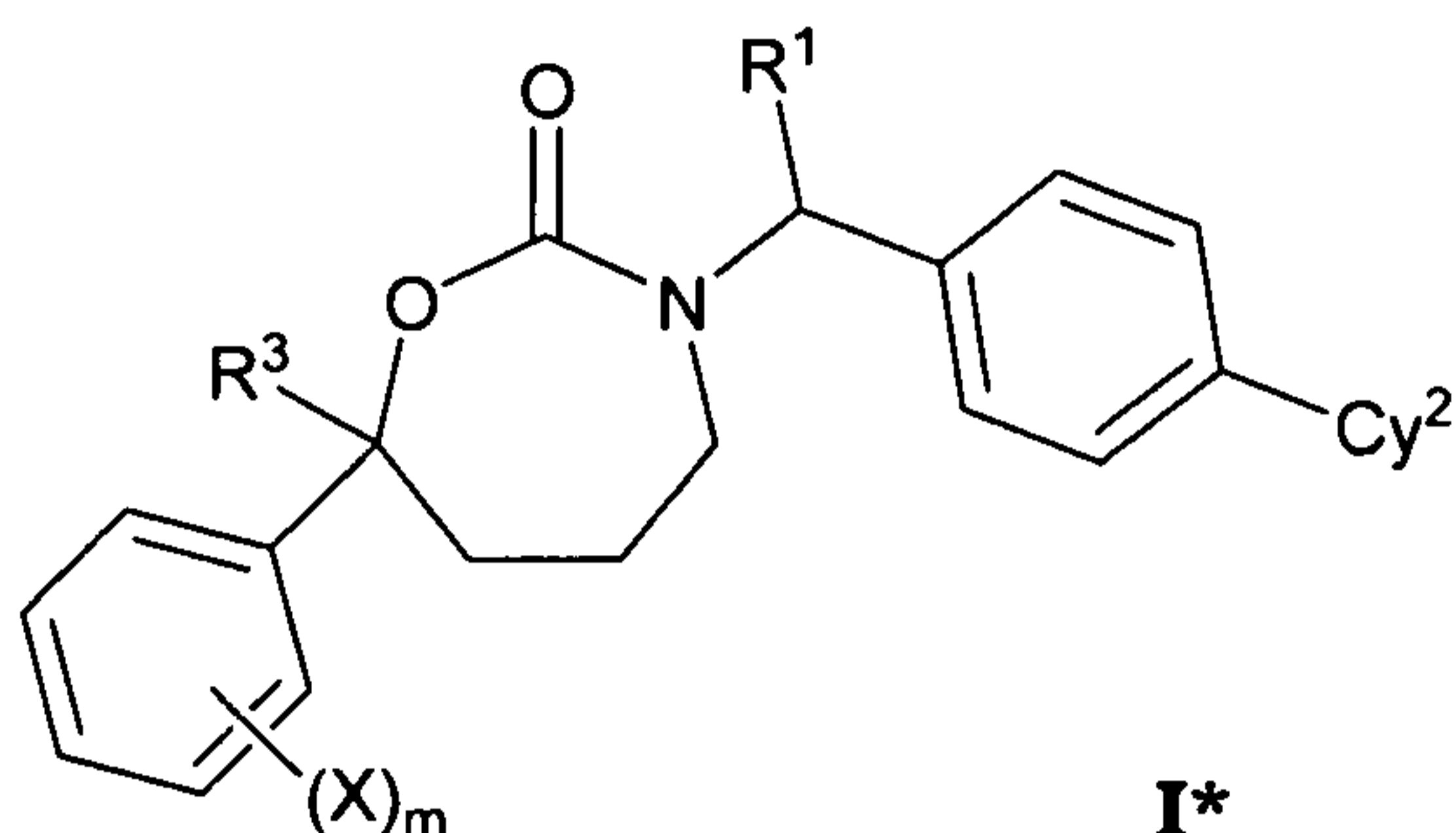
C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

R<sup>3</sup> is selected from substituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, or optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkenyl, optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkynyl and optionally substituted (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>2</sub>-C<sub>3</sub>)alkyl wherein each substituted group represented by R<sup>3</sup> has up to four groups independently selected from cyano, R<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroaryl amino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen,

trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

and the remaining values are as defined for Formula I above or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Structural Formula I\*:



wherein

R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

Cy<sup>2</sup> is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-



$C_7$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,  $(C_4-C_7)$ cycloalkylalkoxy, halo $(C_1-C_6)$ alkoxy, halo $(C_3-C_6)$ cycloalkoxy, halo $(C_4-C_7)$ cycloalkylalkoxy,  $(C_1-C_6)$ alkylthio,  $(C_3-C_6)$ cycloalkylthio,  $(C_4-C_7)$ cycloalkylalkylthio, halo $(C_1-C_6)$ alkylthio, halo $(C_3-C_6)$ cycloalkylthio, halo $(C_4-C_7)$ cycloalkylalkylthio,  $(C_1-C_6)$ alkanesulfinyl,  $(C_3-C_6)$ cycloalkanesulfinyl,  $(C_4-C_7)$ cycloalkylalkanesulfinyl, halo $(C_1-C_6)$ alkane-sulfinyl, halo $(C_3-C_6)$ cycloalkanesulfinyl, halo $(C_4-C_7)$ cycloalkylalkanesulfinyl,  $(C_1-C_6)$ alkanesulfonyl,  $(C_3-C_6)$ cycloalkanesulfonyl,  $(C_4-C_7)$ cycloalkylalkanesulfonyl, halo $(C_1-C_6)$ alkanesulfonyl, halo $(C_3-C_6)$ cycloalkanesulfonyl, halo $(C_4-C_7)$ cycloalkylalkanesulfonyl,  $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ ,  $(C_1-C_6)$ alkylaminocarbonyl, di $(C_1-C_6)$ alkylaminocarbonyl,  $(C_1-C_3)$ alkoxy $(C_1-C_3)$ alkylaminocarbonyl, heterocyclylcarbonyl,  $(C_1-C_6)$ alkylaminosulfonyl, di $(C_1-C_6)$ alkylaminosulfonyl, heterocyclsulfonyl,  $(C_1-C_6)$ alkylcarbonylamino,  $(C_1-C_6)$ alkylcarbonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylsulfonylamino,  $(C_1-C_6)$ alkylsulfonylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxycarbonyl $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy, heteroaryl, oxo, amino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl, di $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl amino $(C_2-C_6)$ alkoxy,  $(C_1-C_6)$ alkylamino $(C_2-C_6)$ alkoxy, di $(C_1-C_6)$ alkylamino $(C_2-C_6)$ alkoxyl and  $(C_1-C_6)$ alkylcarbonyl;

Substituents X are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl, hydroxy $(C_3-C_6)$ cycloalkyl,  $(C_4-C_7)$ cycloalkylalkyl,  $(C_2-C_6)$ alkenyl, halo $(C_2-C_6)$ alkenyl, hydroxy $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl $(C_2-C_4)$ alkynyl, halo $(C_1-C_6)$ alkyl, halo $(C_3-C_6)$ cycloalkyl, halo $(C_4-C_7)$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,  $(C_4-C_7)$ cycloalkylalkoxy, halo $(C_1-C_6)$ alkoxy, halo $(C_3-C_6)$ cycloalkoxy, halo $(C_4-C_7)$ cycloalkylalkoxy,  $(C_1-C_6)$ alkylthio,  $(C_3-C_6)$ cycloalkylthio,  $(C_4-C_7)$ cycloalkylalkylthio, halo $(C_1-C_6)$ alkylthio, halo $(C_3-C_6)$ cycloalkylthio, halo $(C_4-C_7)$ cycloalkylalkylthio,  $(C_1-C_6)$ alkanesulfinyl,  $(C_3-C_6)$ cycloalkanesulfinyl,  $(C_4-C_7)$ cycloalkylalkanesulfinyl, halo $(C_1-C_6)$ alkane-sulfinyl, halo $(C_3-C_6)$ cycloalkanesulfinyl, halo $(C_4-C_7)$ cycloalkylalkanesulfinyl,  $(C_1-C_6)$ alkanesulfonyl,  $(C_3-C_6)$ cycloalkanesulfonyl,  $(C_4-C_7)$ cycloalkylalkanesulfonyl, halo $(C_1-C_6)$ alkanesulfonyl, halo $(C_3-C_6)$ cycloalkanesulfonyl, halo $(C_4-C_7)$ cycloalkylalkanesulfonyl,  $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ ,  $(C_1-C_6)$ alkylaminocarbonyl, di $(C_1-C_6)$ alkylaminocarbonyl,  $(C_1-$

C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

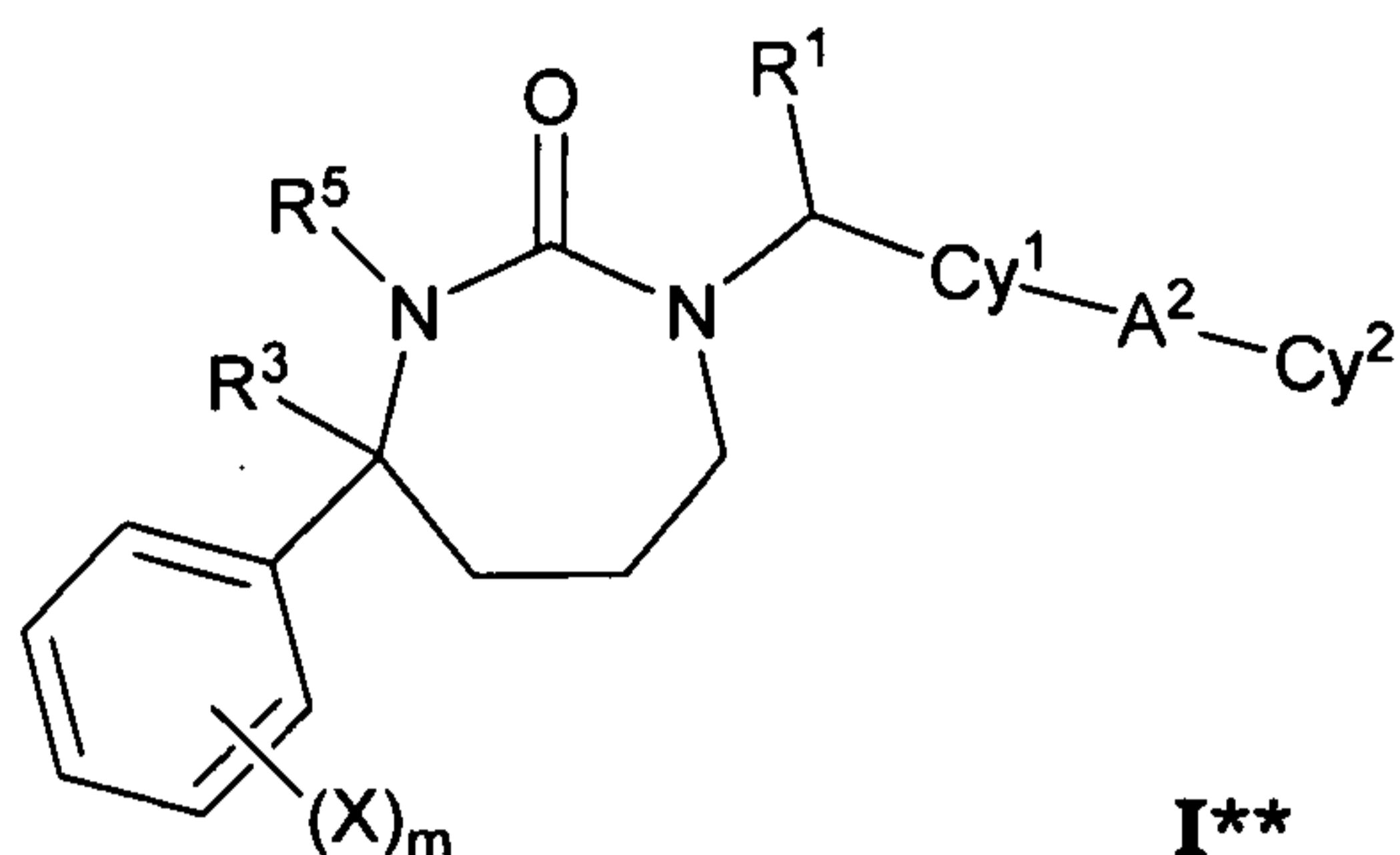
m is 0, 1, 2, 3, 4;

R<sup>3</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl substituted by up to four groups independently selected from cyano, oxo, HO-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

In another embodiment, m is 1, 2, or 3 in Structural Formula I\* and the remaining values are as described above.

Another embodiment is a compound of Structural Formula I\*\*:



I\*\*, wherein

R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

Cy<sup>1</sup> is aryl, heteroaryl, monocyclic cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-

C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

A<sup>2</sup> is a bond;

Cy<sup>2</sup> is (a) hydrogen or (b) aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

(C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

Substituents X are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

m is 0, 1, 2, 3, 4;

R<sup>3</sup> is selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl substituted with up to four groups independently selected from cyano, oxo, R<sup>4</sup>, HO-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-,

$(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4$ ,  
 $(R^4)_2NS(=O)_2O$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  
 $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  
 $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  
 $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  $R^4C(=O)NHS(=O)_2-$ ,  
 $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  
 $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ , heterocyclyl (which in turn  
may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn  
may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl,  
halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-  
substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn  
may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen,  
trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted  
amido and N,N-dialkyl-substituted amido) and heteroarylamino (which in turn may be  
optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen,  
trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted  
amido, N,N-dialkyl-substituted amido, or oxo);

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

In another embodiment, m is 1, 2, or 3 in Structural Formula I\* and the remaining values are as described above.

Another embodiment is a compound of Formula I, I\*, I\*\* or any one of Formulas Ia-g wherein:

$R^1$  (for Formulas I, I\*, I\*\* and Id) is absent or is methyl or ethyl;

$A^1$  (for Formulas I, I\*, I\*\* and Id) is a bond or  $CH_2$  or if  $R^1$  is present, then  $A^1$  is CH;

$Cy^1$  (for Formulas I, I\*, I\*\* and Ia-e) is phenyl, cyclopropyl, cyclohexyl, pyrrolidinyl, pyridyl, N-oxo-pyridyl, thiazolyl or pyrimidinyl optionally substituted with 1 to 4 groups independently selected from halo, methyl, trifluoromethyl, hydroxy, methoxy, methoxycarbonyl, carboxy, ethoxycarbonylmethoxy, 2-hydroxy-2-methylpropoxy, cyano, difluoromethoxy, t-butoxycarbonyl, hydroxy, hydroxymethyl, 2-hydroxyethyl, 2-hydroxy-2-propyl, methoxymethyl, methylsulfonyl and methylsulfonylamino;

$A^2$  (for Formulas I, I\*, I\*\* and Ia-e) is a bond, O,  $OCH_2CO$  or  $C=O$ ;

Cy<sup>2</sup> (for Formulas I, I\*, I\*\* and Ia-e) is (a) hydrogen or (b) phenyl, thienyl, pyridyl, N-oxo-pyridyl, cyclopropyl, piperidiny, piperaziny, morpholinyl, thiazolyl, oxadiazolyl, thiadiazolyl, pyrazolyl, S,S-dioxothiazinyl, 2-oxo-1,2-dihydropyridyl optionally substituted by 1 to 4 groups independently selected from halo, hydroxy, methoxy, hydroxymethyl, methoxycarbonyl, amino, carbamoyl, methylcarbamoyl, dimethylcarbamoyl, (2-methoxyethyl)aminocarbonyl, acetylaminomethyl, methylsulfonyl, methylsulfonylamino, methylaminosulfonyl, isopropylaminosulfonyl, dimethylaminosulfonyl, pyrrolidine-1-sulfonyl, methylsulfonylamino, tetrazolyl, methyl, trifluoromethyl, acetyl, 2-hydroxyethyl and 1-aminoethyl;

n (for Formula I) is 0;

E (for Formulas I, Ia-c and Ia-g) is a bond or CH<sub>2</sub>;

R<sup>2</sup> (for Formulas I, Ia-c and Ia-g) is isopropyl, thienyl, phenyl, or pyridyl, each optionally substituted with halo, methyl, methylthio or (4-morpholino)methyl;

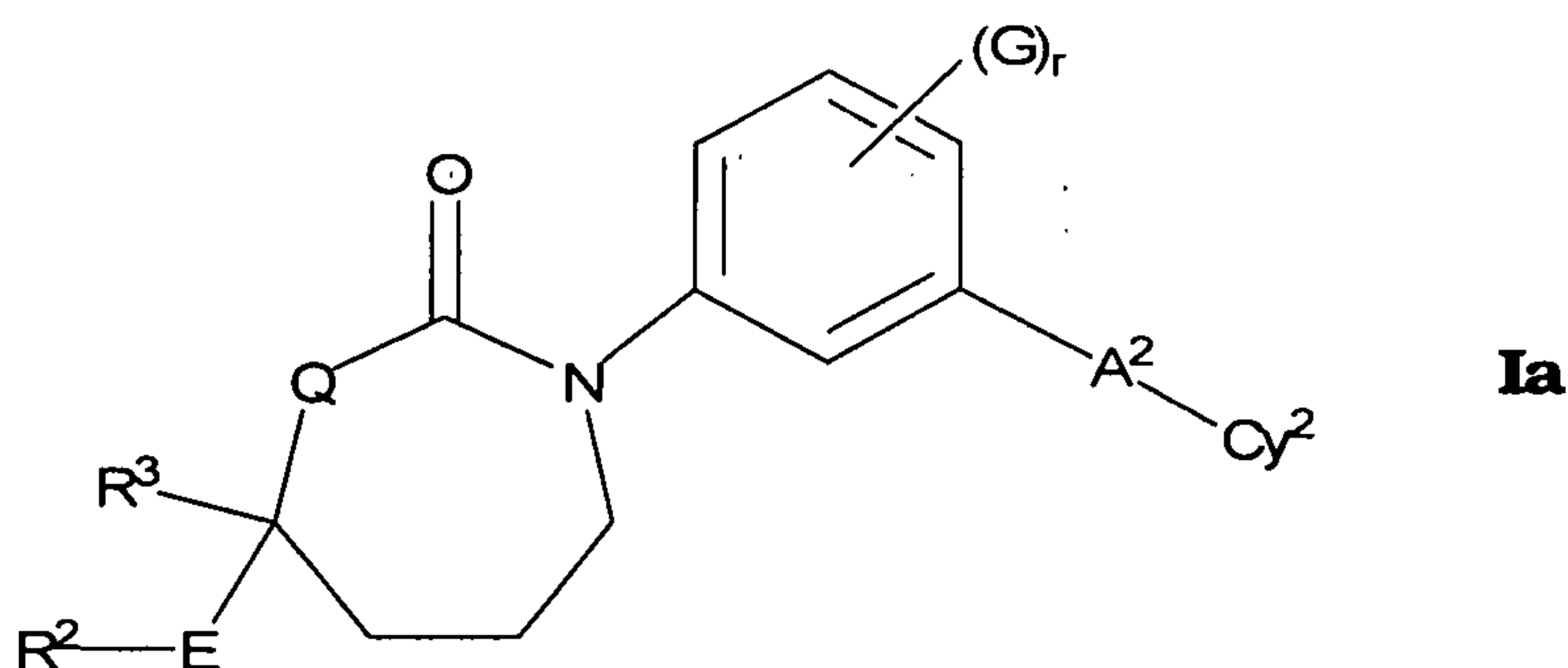
R<sup>3</sup> (for Formulas I, I\*, I\*\*, and Ia-g) is methyl, ethyl, propyl, butyl, vinyl, allyl or ethoxyethyl, each optionally substituted with up to two groups independently selected from HO-, MeO-, H<sub>2</sub>N-, MeC(=O)NH-, MeS(=O)<sub>2</sub>NH-, H<sub>2</sub>NC(=O)-, MeNHC(=O)-, HO<sub>2</sub>C-, (HO)<sub>2</sub>P(=O)O-, H<sub>2</sub>NS(=O)<sub>2</sub>O-, H<sub>2</sub>NS(=O)<sub>2</sub>NH-, MeNHC(=O)NH-, MeNHC(=O)O- oxo, cyano, HO<sub>2</sub>C-, HOCH<sub>2</sub>CH<sub>2</sub>NH-, 4-morpholino, HOCH<sub>2</sub>C(=O)NH-, H<sub>2</sub>NCH<sub>2</sub>C(=O)NH-, EtNHC(=O)NH-, MeOC(=O)NH-, MeNHC(=NC≡N)NH-, Me-, MeS-, MeSO<sub>2</sub>-, MeSO<sub>2</sub>N(Me)-, MeS(=O)<sub>2</sub>NHC(=O)-, imidazolylamino-, imidazolyl, tetrazolyl, H<sub>2</sub>NCONH-, H<sub>2</sub>NCO<sub>2</sub>-, HOCH<sub>2</sub>CH<sub>2</sub>O-, MeNH-, Me<sub>2</sub>N- and MeCONMe;

Q (Formulas I and Ia-g) is O or NR<sup>5</sup>;

R<sup>5</sup> (Formulas I, I\*, I\*\*, and Ia-g) is hydrogen or methyl. ;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Formula Ia:

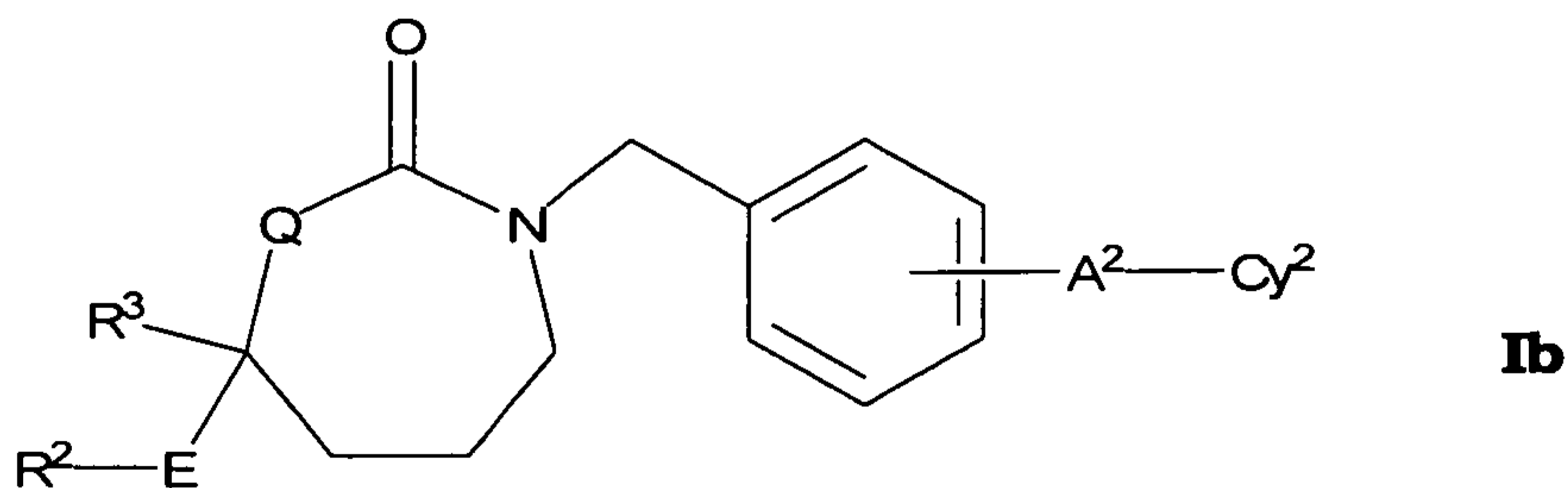


wherein A<sup>2</sup>, Cy<sup>2</sup>, E, Q, R<sup>2</sup>, R<sup>3</sup>, and R<sup>5</sup> are as defined for Formula I above; r is 0, 1, 2, 3 or 4; and substituents G are independently selected from fluorine, chlorine,

bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cyclo-alkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Formula Ib:

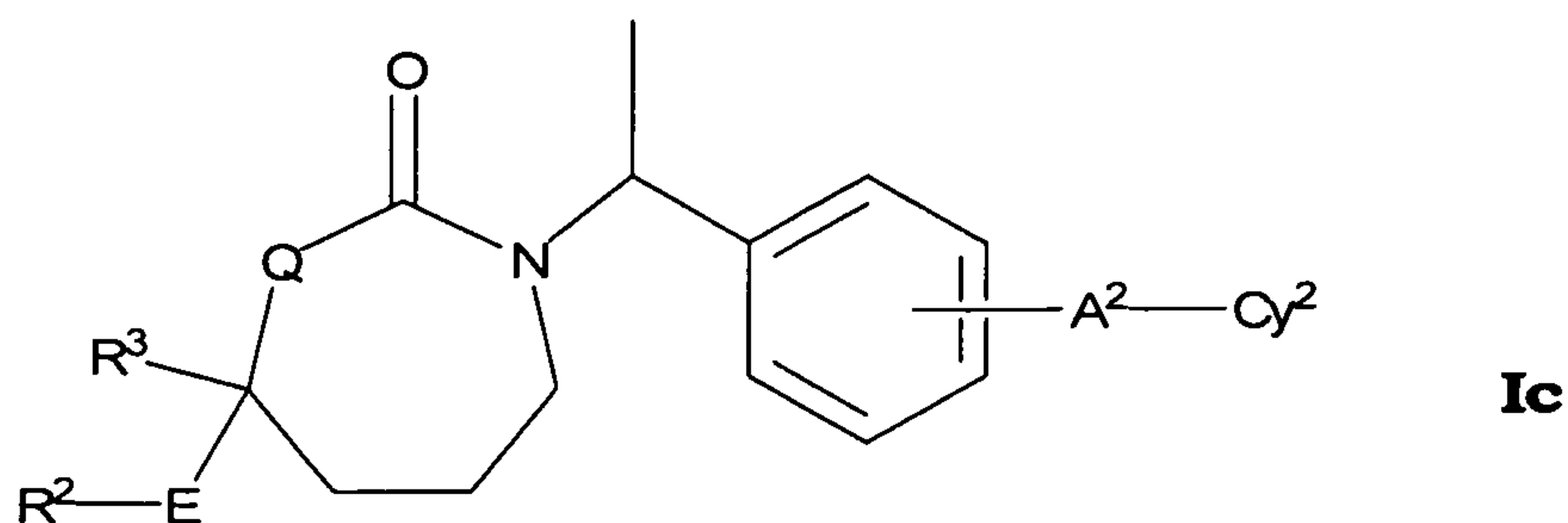


wherein A<sup>2</sup>, Cy<sup>2</sup>, Q, E, R<sup>2</sup>, R<sup>3</sup> and R<sup>5</sup> are as defined for Formula I above;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

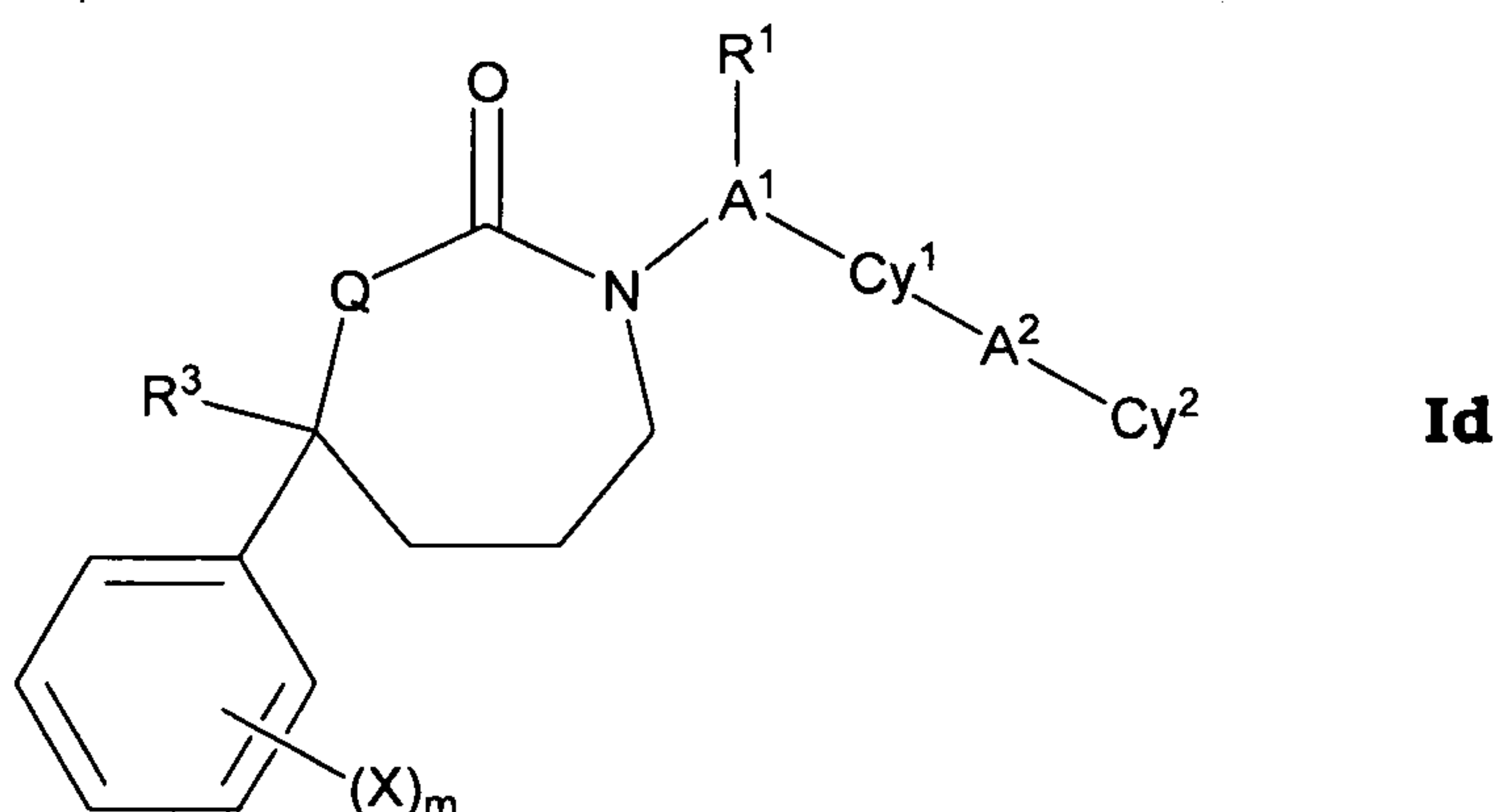
Another embodiment is a compound of Formula Ic:





wherein  $A^2$ ,  $Cy^2$ ,  $E$ ,  $Q$ ,  $R^2$ ,  $R^3$  and  $R^5$  are as defined for Formula I above;  
or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Formula Id:

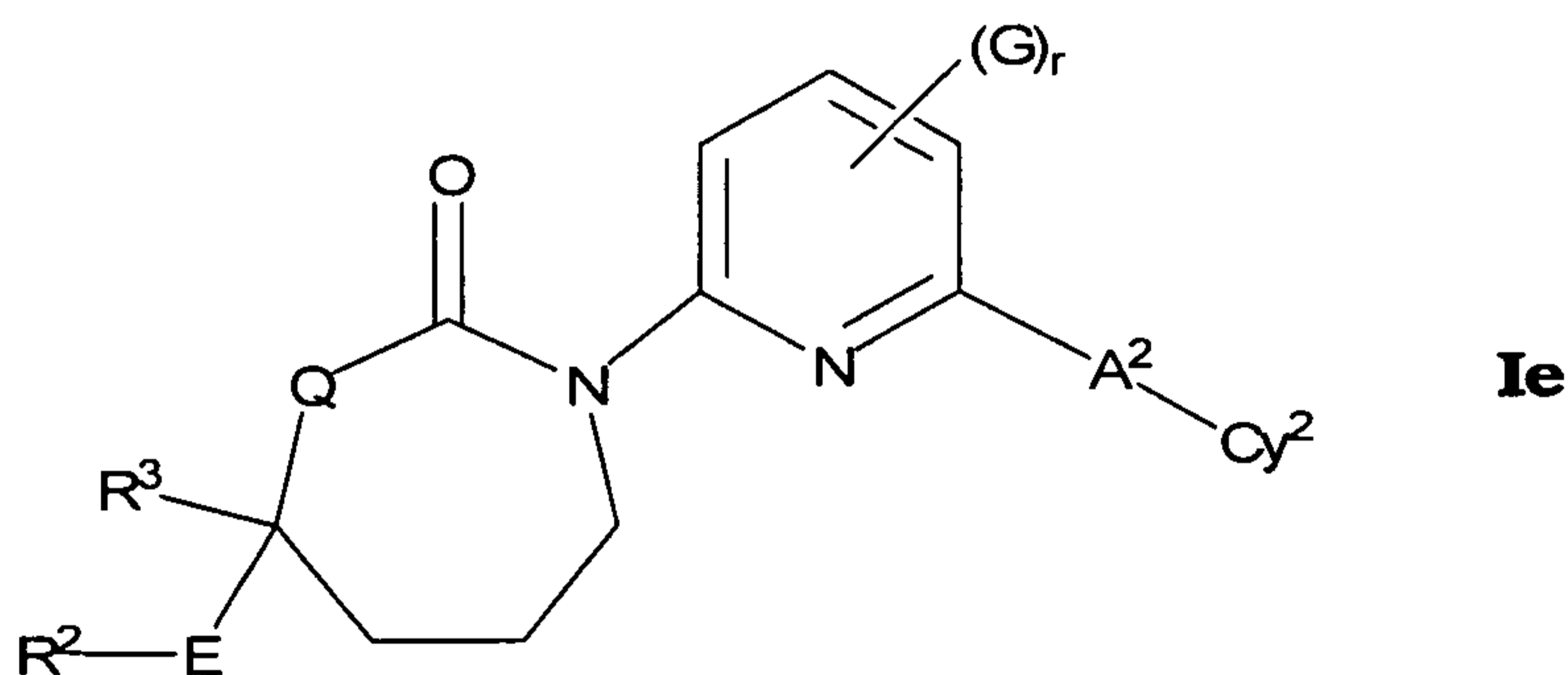


wherein  $A^1$ ,  $R^1$ ,  $Cy^1$ ,  $A^2$ ,  $Cy^2$ ,  $Q$ ,  $R^3$ , and  $R^5$  are as defined for Formula I above;  $m$  is 0, 1, 2, 3 or 4; and substituents  $X$  are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl, hydroxy $(C_3-C_6)$ cycloalkyl,  $(C_4-C_7)$ cycloalkylalkyl,  $(C_2-C_6)$ alkenyl, halo $(C_2-C_6)$ alkenyl, hydroxy $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl $(C_2-C_4)$ alkynyl, halo $(C_1-C_6)$ alkyl, halo $(C_3-C_6)$ cycloalkyl, halo $(C_4-C_7)$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,  $(C_4-C_7)$ cycloalkylalkoxy, halo $(C_1-C_6)$ alkoxy, halo $(C_3-C_6)$ cycloalkoxy, halo $(C_4-C_7)$ cycloalkylalkoxy,  $(C_1-C_6)$ alkylthio,  $(C_3-C_6)$ cycloalkylthio,  $(C_4-C_7)$ cycloalkylalkylthio, halo $(C_1-C_6)$ alkylthio, halo $(C_3-C_6)$ cycloalkylthio, halo $(C_4-C_7)$ cycloalkylalkylthio,  $(C_1-C_6)$ alkanesulfinyl,  $(C_3-C_6)$ cycloalkanesulfinyl,  $(C_4-C_7)$ cycloalkylalkanesulfinyl, halo $(C_1-C_6)$ alkane-sulfinyl, halo $(C_3-C_6)$ cycloalkanesulfinyl, halo $(C_4-C_7)$ cycloalkyl-alkanesulfinyl,  $(C_1-C_6)$ alkanesulfonyl,  $(C_3-C_6)$ cycloalkanesulfonyl,  $(C_4-C_7)$ cycloalkyl-alkanesulfonyl, halo $(C_1-C_6)$ alkanesulfonyl, halo $(C_3-C_6)$ cycloalkanesulfonyl, halo $(C_4-C_7)$ cyclo-alkylalkanesulfonyl,  $(C_1-C_6)$ alkylamino, di $(C_1-C_6)$ alkylamino,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ ,  $(C_1-C_6)$ alkylaminocarbonyl, di $(C_1-C_6)$ alkylaminocarbonyl,  $(C_1-$

C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof. In a specific embodiment, A<sup>2</sup>-Cy<sup>2</sup> is meta or para to the carbon atom bonded to -A<sub>1</sub>.

Another embodiment is a compound of Formula Ie:

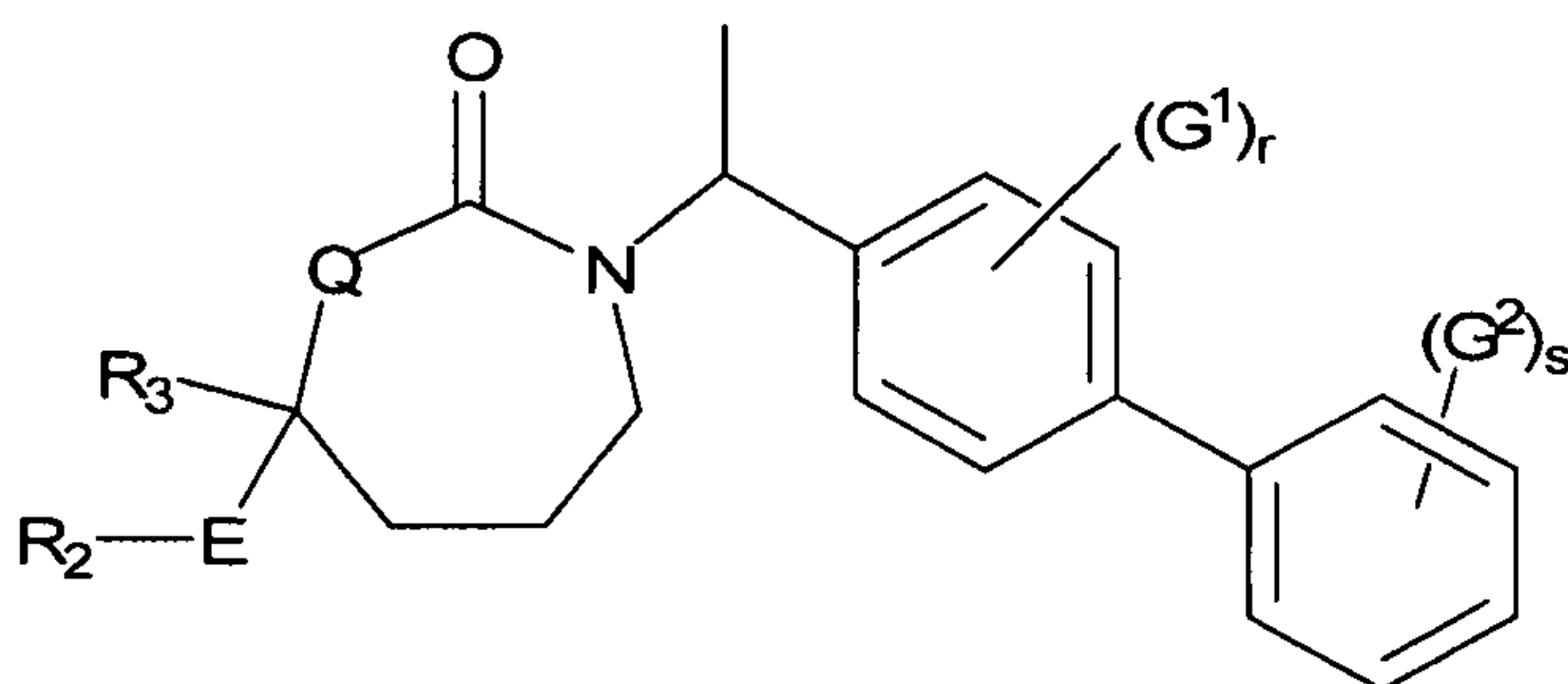


wherein A<sup>2</sup>, Cy<sup>2</sup>, E, Q, R<sup>2</sup>, R<sup>3</sup>, and R<sup>5</sup> are as defined for Formula I above, r is 0, 1, 2, 3 or 4; and substituents G are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cyclo-alkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-

(C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Formula If:



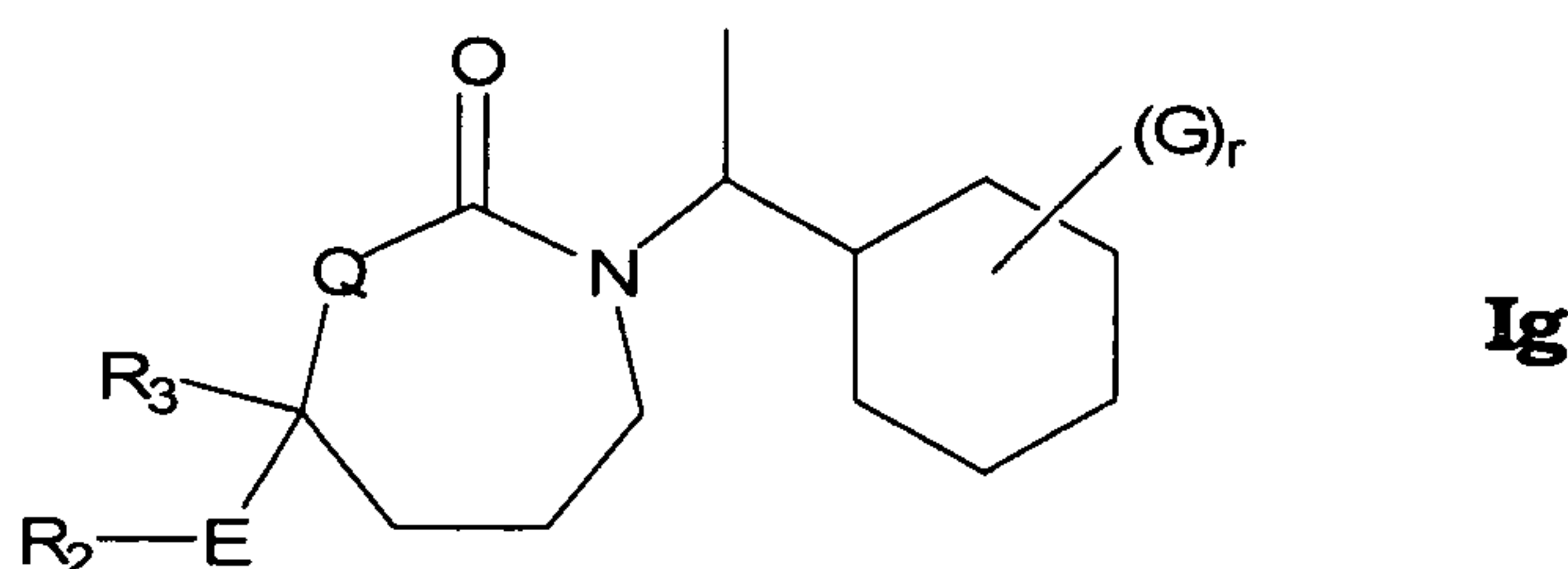
**If**

wherein E, Q, R<sup>2</sup>, R<sup>3</sup>, and R<sup>5</sup> are as defined for Formula I above, r and s are independently 0, 1, 2, 3 or 4; and G<sup>1</sup> and G<sup>2</sup> are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cyclo-alkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl,

di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

Another embodiment is a compound of Formula Ig:



wherein E, Q, R<sup>2</sup>, R<sup>3</sup> and R<sup>5</sup> are as defined for Formula I above, r is 0, 1, 2, 3 or 4; and substituents G are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-

C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

In certain specific embodiments of the invention, the variables in the above-described structural formulas have the following values:

A<sup>1</sup> is (a) a bond, or (b) (C<sub>1</sub>-C<sub>3</sub>)alkylene, CH<sub>2</sub>CH<sub>2</sub>O, wherein the oxygen is attached to Cy<sup>1</sup>, or CH<sub>2</sub>C(=O), wherein the carbonyl carbon is attached to Cy<sup>1</sup>.

Alternatively, A<sup>1</sup> is a bond. Alternatively, A<sup>1</sup> is (C<sub>1</sub>-C<sub>3</sub>)alkylene. In another specific embodiment, A<sup>1</sup> is methylene. In another specific embodiment, if R<sup>1</sup> is present, A<sup>1</sup> is CH. In another specific embodiment, if R<sup>1</sup> is ethyl or methyl and A<sup>1</sup> is CH.

R<sup>1</sup> is (a) absent or (b) is selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl or (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=N)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino. In another alternative, R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl. Alternatively, R<sup>1</sup> is absent, or is methyl or ethyl.

Alternatively, R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=N)NR<sup>4</sup>-, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-,

$R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4-$ ,  
 $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4-$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4-$ , aryl,  
cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino.

Cy<sup>1</sup> is aryl, heteroaryl, monocyclic cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

Alternatively, Cy<sup>1</sup> is optionally substituted aryl or optionally substituted heteroaryl. Alternatively, Cy<sup>1</sup> is optionally substituted phenyl or optionally substituted pyridyl. In another alternative, Cy<sup>1</sup> is optionally substituted monocyclic cycloalkyl. In another alternative, Cy<sup>1</sup> is optionally substituted cyclohexyl. In another alternative, Cy<sup>1</sup> is optionally substituted phenyl. In another alternative, Cy<sup>1</sup> is phenyl optionally substituted with fluorine, bromine, trifluoromethyl, fluorine, methoxy, methyl,

fluorocarboxy, hydroxy alkyl, methoxycarbonyl, or methoxymethyl. In yet another specific embodiment,  $Cy^1$  is substituted with fluorine chlorine, bromine, methoxy, methoxycarbonyl, carboxy, or methyl. Alternatively,  $Cy^1$  is pyridyl optionally substituted with chlorine. In yet another specific embodiment,  $Cy^1$  is substituted with fluorine or bromine. In another embodiment  $A^2$  is a bond,  $Cy^2$  is H and  $Cy^1$  is optionally substituted monocyclic cycloalkyl. In another embodiment  $A^2$  is a bond,  $Cy^2$  is H and  $Cy^1$  is optionally substituted cyclohexyl. In another embodiment  $A^2$  is a bond,  $Cy^2$  is H and  $Cy^1$  is phenyl substituted with fluorine, chlorine, bromine, methyl, methoxy, methoxycarbony, trifluoromethyl, hydroxymethyl or 2-hydroxy-2-propyl. In another embodiment,  $Cy^1$  is 1-(*t*-BuOC(=O))pyrrolidin-3-yl).

$Cy^1$  is phenyl, cyclopropyl, cyclohexyl, pyrrolidinyl, pyridyl, N-oxo-pyridyl, thiazolyl or pyrimidinyl optionally substituted with 1 to 4 groups independently selected from halo, methyl, trifluoromethyl, hydroxy, methoxy, methoxycarbonyl, carboxy, ethoxycarbonylmethoxy, 2-hydroxy-2-methylpropoxy, cyano, difluoromethoxy, *t*-butoxycarbonyl, hydroxy, hydroxymethyl, 2-hydroxyethyl, 2-hydroxy-2-propyl, methoxymethyl, methylsulfonyl and methylsulfonylamino.

$A^2$  is (a) a bond, O, S or  $NR^4$ ; or (b)  $(C_1-C_3)$ alkylene or  $(C_1-C_2)$ alkyleneoxy, each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo.

Alternatively,  $A^2$  is a bond. Alternatively,  $A^2$  is a bond and  $Cy^2$  is hydrogen. Alternatively,  $A^2$  is a bond and  $Cy^2$  is cyclopropyl. Alternatively,  $A^2$  is a bond and  $Cy^2$  is optionally substituted aryl or optionally substituted heteroaryl. In another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is optionally substituted phenyl or optionally substituted pyridyl. In yet another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is optionally substituted phenyl. In yet another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is substituted with 1 to 4 groups independently selected from chlorine or fluorine. In yet another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is difluorophenyl. In yet another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is fluorophenyl. In yet another specific embodiment  $A^2$  is a bond and  $Cy^2$  is optionally substituted 2-thienyl, 1-pyrazolyl, 3-pyrazolyl, 1,2,4-thiadiazol-3-yl, thiazolyl or 2-oxo-1,2-dihydro-5-pyridyl. In yet another specific embodiment,  $A^2$  is a bond and  $Cy^2$  is phenyl or thienyl substituted with amino( $C_1-C_6$ )alkyl.

Alternatively,  $A^2$  is a bond, O,  $OCH_2CO$  or  $C=O$ .

$Cy^2$  is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine,

bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

Alternatively, Cy<sup>2</sup> is optionally substituted pyridyl. In one embodiment, Cy<sup>2</sup> is pyridyl optionally substituted with oxo, alkyl, methoxy, fluorine, chlorine, or trifluoromethyl. Alternatively, Cy<sup>2</sup> is optionally substituted thienyl. In one embodiment, Cy<sup>2</sup> is thienyl optionally substituted with MeCO, H<sub>2</sub>NCHMe or HOCHMe. Alternatively, Cy<sup>2</sup> is optionally substituted phenyl. In one embodiment, Cy<sup>2</sup> is phenyl optionally substituted with fluorine, chlorine, methoxy, methyl or cyano. Alternatively, Cy<sup>2</sup> is optionally substituted phenyl. In one embodiment, Cy<sup>2</sup> is thiazolyl or thiaziazol, each optionally substituted with methyl. Alternatively, Cy<sup>2</sup> is pyrazolyl optionally substituted with trifluoromethyl. Alternatively, Cy<sup>2</sup> is optionally substituted pyrazolyl, morpholinyl, or cyclopropyl.

Cy<sup>2</sup> is (a) hydrogen or (b) aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl,



hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

Cy<sup>2</sup> is (a) hydrogen or (b) phenyl, thienyl, pyridyl, N-oxo-pyridyl, cyclopropyl, piperidinyl, piperazinyl, morpholinyl, thiazolyl, oxadiazolyl, thiadiazolyl, pyrazolyl, S,S-dioxothiazinyl, 2-oxo-1,2-dihydropyridyl optionally substituted by 1 to 4 groups independently selected from halo, hydroxy, methoxy, hydroxymethyl, methoxycarbonyl, amino, carbamoyl, methylcarbamoyl, dimethylcarbamoyl, (2-methoxyethyl)aminocarbonyl, acetylaminoethyl, methylsulfonyl, methylsulfonylamino, methylaminosulfonyl, isopropylaminosulfonyl, dimethylaminosulfonyl, pyrrolidine-1-sulfonyl, methylsulfonylaminoethyl, tetrazolyl, methyl, trifluoromethyl, acetyl, 2-hydroxyethyl and 1-aminoethyl.

Y is (C<sub>1</sub>-C<sub>6</sub>)alkyl or halo(C<sub>1</sub>-C<sub>6</sub>)alkyl.

n is 0, 1 or 2. In another embodiment, n is 0.

X is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-

$C_6$ )cycloalkyl, hydroxy( $C_3$ - $C_6$ )cycloalkyl, ( $C_4$ - $C_7$ )cycloalkylalkyl, ( $C_2$ - $C_6$ )alkenyl, halo( $C_2$ - $C_6$ )alkenyl, hydroxy( $C_2$ - $C_6$ )alkenyl, ( $C_2$ - $C_6$ )alkynyl, ( $C_3$ - $C_6$ )cycloalkyl( $C_2$ - $C_4$ )alkynyl, halo( $C_1$ - $C_6$ )alkyl, halo( $C_3$ - $C_6$ )cycloalkyl, halo( $C_4$ - $C_7$ )cycloalkylalkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_3$ - $C_6$ )cycloalkoxy, ( $C_4$ - $C_7$ )cycloalkylalkoxy, halo( $C_1$ - $C_6$ )alkoxy, halo( $C_3$ - $C_6$ )cycloalkoxy, halo( $C_4$ - $C_7$ )cycloalkylalkoxy, ( $C_1$ - $C_6$ )alkylthio, ( $C_3$ - $C_6$ )cycloalkylthio, ( $C_4$ - $C_7$ )cycloalkylalkylthio, halo( $C_1$ - $C_6$ )alkylthio, halo( $C_3$ - $C_6$ )cycloalkylthio, halo( $C_4$ - $C_7$ )cycloalkylalkylthio, ( $C_1$ - $C_6$ )alkanesulfinyl, ( $C_3$ - $C_6$ )cycloalkanesulfinyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, halo( $C_1$ - $C_6$ )alkane-sulfinyl, halo( $C_3$ - $C_6$ )cycloalkanesulfinyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, ( $C_1$ - $C_6$ )alkanesulfonyl, ( $C_3$ - $C_6$ )cycloalkanesulfonyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, halo( $C_1$ - $C_6$ )alkanesulfonyl, halo( $C_3$ - $C_6$ )cycloalkanesulfonyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, ( $C_1$ - $C_6$ )alkylamino, di( $C_1$ - $C_6$ )alkylamino, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ , ( $C_1$ - $C_6$ )alkylaminocarbonyl, di( $C_1$ - $C_6$ )alkylaminocarbonyl, ( $C_1$ - $C_3$ )alkoxy( $C_1$ - $C_3$ )alkylaminocarbonyl, heterocyclylcarbonyl, ( $C_1$ - $C_6$ )alkylaminosulfonyl, di( $C_1$ - $C_6$ )alkylaminosulfonyl, heterocyclisulfonyl, ( $C_1$ - $C_6$ )alkylcarbonylamino, ( $C_1$ - $C_6$ )alkylcarbonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylsulfonylamino, ( $C_1$ - $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, hydroxy( $C_1$ - $C_6$ )alkoxy, heteroaryl, oxo, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl amino( $C_2$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxy, di( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxyl and ( $C_1$ - $C_6$ )alkylcarbonyl.

m is 0, 1, 2, 3, 4. Alternatively, m is 1, 2, 3, or 4. In another embodiment, m is 1, 2 or 3.

E is (a) a bond or (b) ( $C_1$ - $C_3$ )alkylene or ( $C_1$ - $C_2$ )alkylenyloxy, wherein the O is attached to  $R^2$ , each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo.

E is a bond or  $CH_2$ .

In a specific embodiment E is a bond. In another specific embodiment, E is a bond when  $R^2$  is optionally substituted aryl, optionally substituted heteroaryl or optionally substituted cycloalkyl. In another specific embodiment, E is a bond when  $R^2$  is optionally substituted phenyl, optionally substituted thienyl or optionally substituted pyridyl. In yet another specific embodiment, E is a bond when  $R^2$  is optionally substituted phenyl.

$R^2$  is ( $C_1$ - $C_6$ )alkyl, aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with up to 4 groups independently selected from fluorine,

chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

R<sup>2</sup> is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl,

(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl and E is a bond.

R<sup>2</sup> is optionally substituted aryl, optionally substituted heteroaryl or cycloalkyl or alkyl. In one specific embodiment, R<sup>2</sup> is optionally substituted phenyl, optionally substituted pyridyl or optionally substituted thienyl. In another embodiment, R<sup>2</sup> is optionally substituted alkyl. In one specific embodiment, R<sup>2</sup> is optionally substituted isopropyl. In one specific embodiment, R<sup>2</sup> is phenyl optionally substituted with methyl, chlorine, fluorine, or methylthio. In another specific embodiment, R<sup>2</sup> is optionally substituted phenyl. In yet another specific embodiment, R<sup>2</sup> is fluorophenyl.

R<sup>2</sup> is isopropyl, thienyl, phenyl, or pyridyl, each optionally substituted with halo, methyl, methylthio or (4-morpholino)methyl.

R<sup>3</sup> is selected from (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl and (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy,

alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroaryl-amino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo).

R<sup>3</sup> is selected from substituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, or optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkenyl, optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkynyl and optionally substituted (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>2</sub>-C<sub>3</sub>)alkyl, wherein each substituted group represented by R<sup>3</sup> has up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=NCN)NR<sup>4</sup>, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroaryl-amino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

In another embodiment, R<sup>3</sup> is selected from substituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, or optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkenyl, optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkynyl and optionally substituted (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>2</sub>-C<sub>3</sub>)alkyl wherein each substituted group represented by R<sup>3</sup> has up to four groups independently selected from cyano, R<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-,

$(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  
 $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4$ ,  $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  
 $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  
 $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  
 $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  
 $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  
 $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ ,  
heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo),  
heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy,  
alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  
 $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-  
amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio,  
alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-  
monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino  
(which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio,  
alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-  
monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo).

$R^3$  is  $(HO)_2P(=O)(C_1-C_4)alkyl$ .  $R^3$  is hydroxy( $C_2-C_5$ )alkyl. In yet another  
specific embodiment  $R^3$  is 3-hydroxybutyl, 3-hydroxy-3-methylbutyl, 3-hydroxypropyl,  
2-hydroxypropyl, 2-hydroxy-2-methylpropyl, or 2-hydroxyethyl. Alternatively,  $R^3$  is  
dihydroxy( $C_3-C_4$ )alkyl. In yet another specific embodiment  $R^3$  is 2,3-dihydroxypropyl.  
 $R^3$  is amino( $C_2-C_5$ )alkyl or methylamino( $C_2-C_5$ )alkyl, each optionally substituted with  
hydroxy. In another specific embodiment,  $R^3$  is  $\omega$ - $H_2NCO(C_1-C_3)alkyl$ . In another  
specific embodiment,  $R^3$  is  $H_2NCONH(C_1-C_3)alkyl$ , optionally substituted with  
hydroxy. In another specific embodiment,  $R^3$  is  $H_2NCH_2CONH(C_1-C_3)alkyl$ , optionally  
substituted with hydroxy. In another specific embodiment,  $R^3$  is  $(C_1-$   
 $C_3)alkylHNCONH(C_1-C_3)alkyl$ . In yet another specific embodiment,  $R^3$  is  
 $H_2NC(=O)C_1-C_4 alkyl$ . In yet another specific embodiment,  $R^3$  is  $MeC(=O)NHC_1-C_4$   
alkyl. In yet another specific embodiment,  $R^3$  is  $MeOC(=O)NHC_1-C_4 alkyl$ . In yet  
another specific embodiment,  $R^3$  is  $MeNHC(=O)C_1-C_4 alkyl$ . In yet another specific  
embodiment  $R^3$  is  $H_2NC(=O)OC_1-C_4 alkyl$ . In yet another specific embodiment,  $R^3$  is  
 $MeHNC(=O)OC_1-C_4 alkyl$ . In yet another specific embodiment,  $R^3$  is  $(C_1-$   
 $C_2)alkoxy(C_1-C_3)alkyl$ , optionally substituted with hydroxy. In yet another specific  
embodiment,  $R^3$  is  $(C_1-C_2)alkylthio(C_1-C_3)alkyl$ , optionally substituted with hydroxy. In  
yet another specific embodiment,  $R^3$  is  $H_2NSO_2O(C_2-C_4)alkyl$ . In yet another specific

embodiment,  $R^3$  is  $H_2NSO_2NH(C_2-C_4)alkyl$ . In yet another specific embodiment,  $R^3$  is  $oxo(C_2-C_4)alkyl$ . In yet another specific embodiment,  $R^3$  is  $MeCO(C_1-C_2)alkyl$ . In yet another specific embodiment,  $R^3$  is  $HOCO(C_1-C_2)alkyl$ . In yet another specific embodiment,  $R^3$  is alkenyl. In yet another specific embodiment,  $R^3$  is alkyl. In yet another specific embodiment,  $R^3$  is allyl. In yet another specific embodiment,  $R^3$  is  $MeC(=O)NH(C_2-C_4)alkyl$ . In yet another specific embodiment,  $R^3$  is  $MeOC(=O)NH(C_2-C_4)alkyl$ . In yet another specific embodiment,  $R^3$  is cyanoalkyl. In yet another specific embodiment,  $R^3$  is alkylsulfonylaminoalkyl. In yet another specific embodiment,  $R^3$  is alkylsulfonylalkyl. In yet another specific embodiment  $R^3$  is  $MeSO_2NH(C_2-C_4)alkyl$ , optionally substituted with hydroxy. In yet another specific embodiment,  $R^3$  is aminocarbonylaminoalkyl. In yet another specific embodiment,  $R^3$  is aminocarboxyalkyl. In yet another specific embodiment  $R^3$  is 2-(4-morpholino)ethyl. In yet another specific embodiment  $R^3$  is 2-(1-imidazolyl)ethyl. In yet another specific embodiment  $R^3$  is 2-(1-aminoimidazolyl)ethyl.

Alternatively,  $R^3$  is  $(C_1-C_6)alkyl$  substituted by up to four groups independently selected from cyano, oxo, HO-,  $(R^4)_2N-$ ,  $R^4O_2C-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4$ ,  $(R^4)_2NS(=O)_2O$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ , heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo).

R<sup>3</sup> is methyl, ethyl, propyl, butyl, vinyl, allyl or ethoxyethyl, each optionally substituted with up to two groups independently selected from HO-, MeO-, H<sub>2</sub>N-, MeC(=O)NH-, MeS(=O)<sub>2</sub>NH-, H<sub>2</sub>NC(=O)-, MeNHC(=O), HO<sub>2</sub>C-, (HO)<sub>2</sub>P(=O)O-, H<sub>2</sub>NS(=O)<sub>2</sub>O-, H<sub>2</sub>NS(=O)<sub>2</sub>NH-, MeNHC(=O)NH-, MeNHC(=O)O oxo, cyano, HO<sub>2</sub>C-, HOCH<sub>2</sub>CH<sub>2</sub>NH-, 4-morpholino, HOCH<sub>2</sub>C(=O)NH-, H<sub>2</sub>NCH<sub>2</sub>C(=O)NH, EtNHC(=O)NH, MeOC(=O)NH-, MeNHC(=NC≡N)NH-, Me-, MeS-, MeSO<sub>2</sub>- MeSO<sub>2</sub>N(Me)-, MeS(=O)<sub>2</sub>NHC(=O)-, imidazolylamino-, imidazolyl, tetrazolyl, H<sub>2</sub>NCONH-, H<sub>2</sub>NCO<sub>2</sub>-, HOCH<sub>2</sub>CH<sub>2</sub>O-, MeNH-, Me<sub>2</sub>N- or MeCONMe.

R<sup>4</sup> is independently selected from H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl and (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl.

R<sup>5</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl. R<sup>5</sup> is hydrogen or methyl. In one specific embodiment, R<sup>5</sup> is hydrogen.

r is 0, 1, 2, 3 or 4.

s is 0, 1, 2, 3 or 4.

G is fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cyclo-alkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-



C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

G<sup>1</sup> and G<sup>2</sup> are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl.

In another embodiment of the invention, the provisos applied to pharmaceutical compositions comprising compounds of Formula I, I\*, I\*\* also apply to methods of treatment utilizing any one of the compounds of Formula I, I\*, I\*\* or Formulas Ia-Ig.

Another embodiment of the invention is a compound of Formulas I, I\*, I\*\*, Ia, Ib, Ic, Id, Ie, If, or Ig or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof wherein any of the following provisos apply

Proviso 1: If (a) Q is O; (b) A<sup>1</sup>-Cy<sup>1</sup> is alkyl substituted with aryl; or cycloalkyl or aryl; each optionally substituted by aryl, alkyl, alkenyl, alkynyl, alkoxy, formyl, carbonyl, carboxyl, alkoxy carbonyl, hydroxyl, mercapto, halogen, sulfonyl or amino; (c) R<sup>3</sup> is an alkyl, alkenyl, alkynyl optionally substituted with alkyl, alkoxy, oxo, carboxy, alkoxy carbonyl, hydroxy, mercapto, fluorine, sulfonyl, and amino; (d) then E-R<sup>2</sup> is not alkyl, aryl, cycloalkyl each optionally substituted with alkyl, alkenyl, alkynyl, aryl, alkoxy, oxo, carboxy, alkoxy carbonyl, hydroxy, mercapto, halogen, sulfonyl, or amino.

Proviso 2: If (a) A<sup>1</sup>-Cy<sup>1</sup> is cycloalkyl; and (b) R<sup>3</sup> is alkyl optionally substituted with hydroxy or alkoxy; or alkoxyalkyl substituted with oxo; (c) then (i) E-R<sup>2</sup> is not alkyl optionally substituted with aryl, hydroxy or alkoxy; or (ii) E-R<sup>2</sup> is not unsubstituted cycloalkyl or unsubstituted aryl or (iii) E is not alkoxy and R<sup>2</sup> is not alkyl substituted with oxo.

Proviso 3: If (a) A<sup>1</sup> and A<sup>2</sup> are both bonds, (b) R<sup>3</sup> is an alkyl optionally substituted with amino, alkyl, alkoxy, oxo, carboxy, hydroxy, fluorine, or sulfonyl, or an unsubstituted alkynyl (c) E-R<sup>2</sup> is (i) a optionally substituted alkyl or an optionally substituted carbocyclic aromatic group wherein the substituent is an amino, alkyl, alkenyl, alkynyl, alkoxy, carboxy, hydroxy, halogen or sulfonyl, or (ii) an unsubstituted cycloalkyl, and (d) Cy<sup>2</sup> is H, then Cy<sup>1</sup> is not (i) an unsubstituted monocyclic cycloalkyl or (ii) a substituted or unsubstituted carbocyclic aromatic group.

Proviso 4: If (a) A<sup>1</sup> and A<sup>2</sup> are both bonds, (b) R<sup>3</sup> is an alkyl optionally substituted with amino, alkyl, alkoxy, oxo, carboxy, hydroxy, fluorine, or sulfonyl, or an unsubstituted alkynyl (c) E-R<sup>2</sup> is (i) a optionally substituted alkyl or an optionally substituted carbocyclic aromatic group wherein the substituent is an amino, alkyl, alkenyl, alkynyl, alkoxy, carboxy, hydroxy, halogen or sulfonyl, or (ii) an unsubstituted cycloalkyl, and (d) Cy<sup>1</sup> is an optionally substituted carbocyclic aromatic group, then Cy<sup>2</sup> is not an unsubstituted carbocyclic aromatic group.

Proviso 5: If (a) A<sup>1</sup> is alkyl optionally substituted with amino, alkyl, alkoxy, oxo, carboxy, hydroxy, fluorine, or sulfonyl, (b) R<sup>3</sup> is an alkyl substituted with amino, alkyl, alkoxy, oxo, carboxy, hydroxy, fluorine, or sulfonyl, or an unsubstituted alkynyl (c) E-R<sup>2</sup> is (i) a optionally substituted alkyl or an optionally substituted carbocyclic aromatic group wherein the substituent is an amino, alkyl, alkenyl, alkynyl, alkoxy, carboxy,

hydroxy, halogen or sulfonyl, or (ii) an unsubstituted cycloalkyl, then Cy<sup>1</sup> is a carbocyclic aromatic group optionally substituted with C<sub>1</sub>C<sub>4</sub> alkoxy or halogen.

## DEFINITIONS

The term "alkyl" means a straight or branched hydrocarbon radical having 1-10 carbon atoms and includes, for example, methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, isobutyl, tert-butyl, n-pentyl, n-hexyl, n-heptyl, n-octyl, n-nonyl, n-decyl and the like.

The term "cycloalkyl" means a monocyclic, bicyclic or tricyclic, saturated hydrocarbon ring having 3-10 carbon atoms and includes, for example, cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, cyclooctyl, bicyclo[2.2.2]octyl, bicyclo[2.2.1]heptyl, spiro [4.4]nonane, adamantyl and the like.

The term "aryl" means an aromatic radical which is a phenyl group, a naphthyl group, an indanyl group or a tetrahydronaphthalene group. An aryl group is optionally substituted with 1-4 substituents. Exemplary substituents include alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido.

The term "heteroaryl" means a 5- and 6-membered heteroaromatic radical which may optionally be fused to a saturated or unsaturated ring containing 0-4 heteroatoms selected from N, O, and S and includes, for example, a heteroaromatic radical which is 2- or 3-thienyl, 2- or 3-furanyl, 2- or 3-pyrrolyl, 2-,3-, or 4-pyridyl, 2-pyrazinyl, 2-, 4-, or 5-pyrimidinyl, 3- or 4-pyridazinyl, 1H-indol-6-yl, 1H-indol-5-yl, 1H-benzimidazol-6-yl, 1H-benzimidazol-5-yl, 2-, 4-, 5-, 6-, 7- or 8-quinazoliny, 2-, 3-, 5-, 6-, 7- or 8-quinoxaliny, 2-, 3-, 4-, 5-, 6-, 7- or 8-quinoliny, 1-, 3-, 4-, 5-, 6-, 7- or 8-isoquinoliny, 2-, 4-, or 5-thiazolyl, 2-, 3-, 4-, or 5-pyrazolyl, 2-, 3-, 4-, or 5-imidazolyl. A heteroaryl is optionally substituted. Exemplary substituents include alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido, or by oxo to form an N-oxide.

The term "heterocyclyl" means a 4-, 5-, 6- and 7-membered saturated or partially unsaturated heterocyclic ring containing 1 to 4 heteroatoms independently selected from N, O, and S. Exemplary heterocyclyls include pyrrolidine, pyrrolidin-2-one, 1-methylpyrrolidin-2-one, piperidine, piperidin-2-one, 2-pyridone, 4-pyridone, piperazine, 1-(2,2,2-trifluoroethyl)piperazine, piperazin-2-one, 5,6-dihydropyrimidin-4-one, pyrimidin-4-one, tetrahydrofuran, tetrahydropyran, tetrahydrothiophene, tetrahydrothiopyran, isoxazolidine, 1,3-dioxolane, 1,3-dithiolane, 1,3-dioxane, 1,4-

dioxane, 1,3-dithiane, 1,4-dithiane, oxazolidin-2-one, imidazolidin-2-one, imidazolidine-2,4-dione, tetrahydropyrimidin-2(1H)-one, morpholine, N-methylmorpholine, morpholin-3-one, 1,3-oxazinan-2-one, thiomorpholine, thiomorpholine 1,1-dioxide, tetrahydro-1,2,5-thioxazole 1,1-dioxide, tetrahydro-2H-1,2-thiazine 1,1-dioxide, hexahydro-1,2,6-thiadiazine 1,1-dioxide, tetrahydro-1,2,5-thiadiazole 1,1-dioxide and isothiazolidine 1,1-dioxide. A heterocyclyl can be optionally substituted with 1-4 substituents. Exemplary substituents include alkyl, haloalkyl and oxo.

As used herein the terms "subject" and "patient" may be used interchangeably, and means a mammal in need of treatment, e.g., companion animals (e.g., dogs, cats, and the like), farm animals (e.g., cows, pigs, horses, sheep, goats and the like) and laboratory animals (e.g., rats, mice, guinea pigs and the like). Typically, the subject is a human in need of treatment.

When a disclosed compound or its pharmaceutically acceptable salt is named or depicted by structure, it is to be understood that solvates or hydrates of the compound or its pharmaceutically acceptable salts are also included. "Solvates" refer to crystalline forms wherein solvent molecules are incorporated into the crystal lattice during crystallization. Solvate may include water or nonaqueous solvents such as ethanol, isopropanol, DMSO, acetic acid, ethanolamine, and EtOAc. Solvates, wherein water is the solvent molecule incorporated into the crystal lattice, are typically referred to as "hydrates." Hydrates include stoichiometric hydrates as well as compositions containing variable amounts of water.

Certain of the disclosed compounds may exist in various stereoisomeric forms. Stereoisomers are compounds that differ only in their spatial arrangement. Enantiomers are pairs of stereoisomers whose mirror images are not superimposable, most commonly because they contain an asymmetrically substituted carbon atom that acts as a chiral center. "Enantiomer" means one of a pair of molecules that are mirror images of each other and are not superimposable. Diastereomers are stereoisomers that are not related as mirror images, most commonly because they contain two or more asymmetrically substituted carbon atoms. The symbol "\*" in a structural formula represents the presence of a chiral carbon center. "R" and "S" represent the configuration of substituents around one or more chiral carbon atoms. Thus, "R\*" and "S\*" denote the relative configurations of substituents around one or more chiral carbon atoms.

“Racemate” or “racemic mixture” means a compound of equimolar quantities of two enantiomers, wherein such mixtures exhibit no optical activity; i.e., they do not rotate the plane of polarized light.

“Geometric isomer” means isomers that differ in the orientation of substituent atoms in relationship to a carbon-carbon double bond, to a cycloalkyl ring, or to a bridged bicyclic system. Atoms (other than H) on each side of a carbon-carbon double bond may be in an E (substituents are on opposite sides of the carbon-carbon double bond) or Z (substituents are oriented on the same side) configuration.

“R,” “S,” “S\*,” “R\*,” “E,” “Z,” “cis,” and “trans,” indicate configurations relative to the core molecule.

The compounds of the invention may be prepared as individual isomers by either isomer-specific synthesis or resolved from an isomeric mixture. Conventional resolution techniques include forming the salt of a free base of each isomer of an isomeric pair using an optically active acid (followed by fractional crystallization and regeneration of the free base), forming the salt of the acid form of each isomer of an isomeric pair using an optically active amine (followed by fractional crystallization and regeneration of the free acid), forming an ester or amide of each of the isomers of an isomeric pair using an optically pure acid, amine or alcohol (followed by chromatographic separation and removal of the chiral auxiliary), or resolving an isomeric mixture of either a starting material or a final product using various well known chromatographic methods.

When the stereochemistry of a disclosed compound is named or depicted by structure, the named or depicted stereoisomer is at least 60%, 70%, 80%, 90%, 99% or 99.9% by weight pure relative to the other stereoisomers. When a single enantiomer is named or depicted by structure, the depicted or named enantiomer is at least 60%, 70%, 80%, 90%, 99% or 99.9% by weight optically pure. Percent optical purity by weight is the ratio of the weight of the enantiomer over the weight of the enantiomer plus the weight of its optical isomer.

When a disclosed compound is named or depicted by structure without indicating the stereochemistry, and the compound has at least one chiral center, it is to be understood that the name or structure encompasses one enantiomer of compound free from the corresponding optical isomer, a racemic mixture of the compound and mixtures enriched in one enantiomer relative to its corresponding optical isomer.

When a disclosed compound is named or depicted by structure without indicating the stereochemistry and has at least two chiral centers, it is to be understood that the name or structure encompasses a diastereomer free of other diastereomers, a pair of diastereomers free from other diastereomeric pairs, mixtures of diastereomers, mixtures of diastereomeric pairs, mixtures of diastereomers in which one diastereomer is enriched relative to the other diastereomer(s) and mixtures of diastereomeric pairs in which one diastereomeric pair is enriched relative to the other diastereomeric pair(s).

The compounds of the invention may be present in the form of pharmaceutically acceptable salts. For use in medicines, the salts of the compounds of the invention refer to non-toxic "pharmaceutically acceptable salts." Pharmaceutically acceptable salt forms include pharmaceutically acceptable acidic/anionic or basic/cationic salts.

Pharmaceutically acceptable acidic/anionic salts include, the acetate, benzenesulfonate, benzoate, bicarbonate, bitartrate, bromide, calcium edetate, camsylate, carbonate, chloride, citrate, dihydrochloride, edetate, edisylate, estolate, esylate, fumarate, glyceptate, gluconate, glutamate, glycollylarsanilate, hexylresorcinate, hydrobromide, hydrochloride, hydroxynaphthoate, iodide, isethionate, lactate, lactobionate, malate, maleate, malonate, mandelate, mesylate, methylsulfate, mucate, napsylate, nitrate, pamoate, pantothenate, phosphate/diphosphate, polygalacturonate, salicylate, stearate, subacetate, succinate, sulfate, hydrogensulfate, tannate, tartrate, teoclate, tosylate, and triethiodide salts.

Pharmaceutically acceptable basic/cationic salts include, the sodium, potassium, calcium, magnesium, diethanolamine, n-methyl-D-glucamine, L-lysine, L-arginine, ammonium, ethanolamine, piperazine and triethanolamine salts.

The following abbreviations have the indicated meanings:

Abbreviation	Meaning
Boc	<i>tert</i> -butoxy carbonyl or <i>t</i> -butoxy carbonyl
(Boc) <sub>2</sub> O	di- <i>tert</i> -butyl dicarbonate
Cbz	Benzyloxycarbonyl
CbzCl	Benzyl chloroformate

DAST	diethylaminosulfur trifluoride
DBU	1,8-diazabicyclo[5.4.0]undec-7-ene
DCC	N,N'-dicyclohexylcarbodiimide
DCU	N,N'-dicyclohexylurea
DIAD	diisopropyl azodicarboxylate
DIEA	N,N-diisopropylethylamine
DMAP	4-(dimethylamino)pyridine
DMF	N,N-dimethylformamide
DMPU	1,3-dimethyl-3,4,5,6-tetrahydro-2(1H)-pyrimidinone
2,4-DNP	2,4-dinitrophenylhydrazine
DPTBS	Diphenyl-t-butylsilyl
EDC.HCl, EDCI	1-[3-(dimethylamino)propyl]-3-ethylcarbodiimide hydrochloride
Equiv	equivalents
Fmoc	1-[[[(9H-fluoren-9-ylmethoxy)carbonyl]oxy]-
Fmoc-OSu	1-[[[(9H-fluoren-9-ylmethoxy)carbonyl]oxy]-2,5- pyrrolidinedione
h, hr	hour(s)
HOBt	1-hydroxybenzotriazole
HATU	2-(7-Aza-1H-benzotriazole-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate
HBTU	2-(1H-Benzotriazol-1-yl)-1,1,3,3-tetramethyluronium hexafluorophosphate
KHMDS	potassium hexamethyldisilazane
LAH or LiAlH <sub>4</sub>	lithium aluminum hydride
LC-MS	liquid chromatography-mass spectroscopy
LHMDS	lithium hexamethyldisilazane
Me	methyl
MsCl	methanesulfonyl chloride

Min	minute
MS	mass spectrum
NaH	sodium hydride
NaHCO <sub>3</sub>	sodium bicarbonate
NaN <sub>3</sub>	sodium azide
NaOH	sodium hydroxide
Na <sub>2</sub> SO <sub>4</sub>	sodium sulfate
NMM	N-methylmorpholine
NMP	N-methylpyrrolidinone
Pd <sub>2</sub> (dba) <sub>3</sub>	tris(dibenzylideneacetone)dipalladium(0)
PE	petroleum ether
Quant	quantitative yield
Satd	saturated
SOCl <sub>2</sub>	thionyl chloride
SFC	supercritical fluid chromatography
SPA	scintillation proximity assay
SPE	solid phase extraction
TBAF	tetrabutylammonium fluoride
TBS	t-butyldimethylsilyl
TBDPS	t-butyldiphenylsilyl
TBSCI	t-butyldimethylsilyl chloride
TBDPSCI	t-butyldiphenylsilyl chloride
TEA	triethylamine or Et <sub>3</sub> N
TEMPO	2,2,6,6-tetramethyl-1-piperidinyloxy free radical
Teoc	1-[2-(trimethylsilyl)ethoxycarbonyloxy]-
Teoc-OSu	1-[2-(trimethylsilyl)ethoxycarbonyloxy]pyrrolidin-2,5-dione
TFA	trifluoroacetic acid
Tlc, TLC	thin layer chromatography

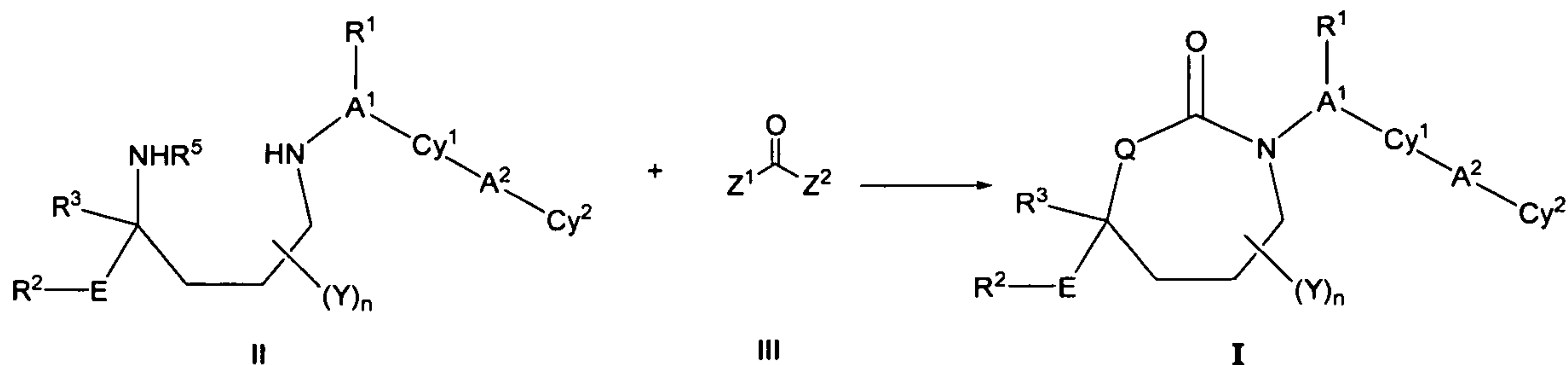


TMS	trimethylsilyl
TMSCl	chlorotrimethylsilane or trimethylsilyl chloride
$t_R$	retention time
TsOH	p-toluenesulfonic acid

### GENERAL DESCRIPTION OF SYNTHETIC METHODS

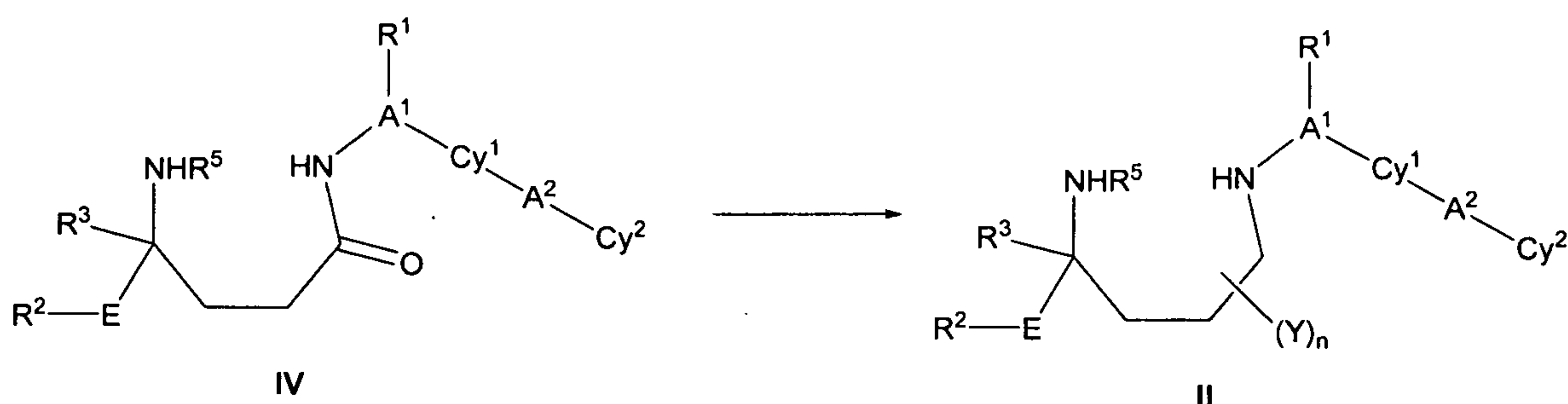
Compounds of Formula I can be prepared by several processes. In the discussion below,  $A^1$ ,  $A^2$ ,  $Cy^1$ ,  $Cy^2$ , E, Q,  $R^1$ ,  $R^2$ ,  $R^3$ ,  $R^5$ , Y and n have the meanings indicated above unless otherwise noted. In cases where the synthetic intermediates and final products of Formulas I described below contain potentially reactive functional groups, for example amino, hydroxyl, thiol and carboxylic acid groups, that may interfere with the desired reaction, it may be advantageous to employ protected forms of the intermediate. Methods for the selection, introduction and subsequent removal of protecting groups are well known to those skilled in the art. (T.W. Greene and P. G. M. Wuts "Protective Groups in Organic Synthesis" John Wiley & Sons, Inc., New York 1999). Such protecting group manipulations are assumed in the discussion below and not described explicitly. Generally, reagents in the reaction schemes are used in equimolar amounts; however, in certain cases it may be desirable to use an excess of one reagent to drive a reaction to completion. This is especially the case when the excess reagent can be readily removed by evaporation or extraction. Bases employed to neutralize HCl in reaction mixtures are generally used in slight to substantial excess (1.05 – 5 equivalents).

In a first process a compound of Formula I, wherein Q is  $NR^5$  can be prepared by reaction of diamine intermediate of Formula II with a reagent of Formula III, wherein  $Z^1$  and  $Z^2$  are leaving groups such as chloride, 1-imidazolyl or aryloxy in an inert solvent such as THF,  $CH_2Cl_2$ , toluene or MeCN, usually in the presence of an organic or inorganic base such as triethylamine or  $NaHCO_3$  respectively, at  $-10\text{ }^\circ\text{C}$  to  $120\text{ }^\circ\text{C}$ :

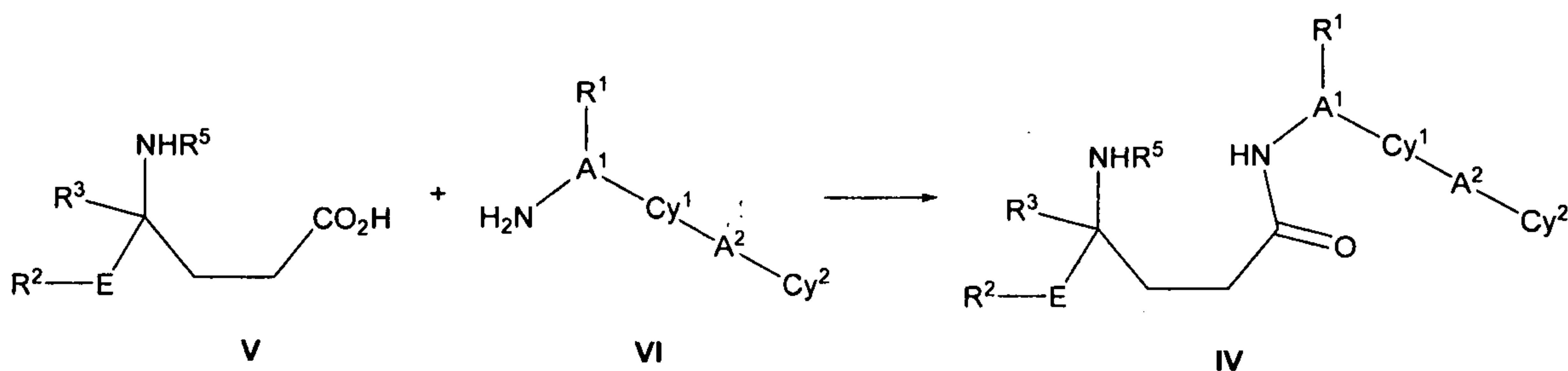


Certain instances of reagent III are especially convenient because they are commercially available. For example when  $Z^1$  and  $Z^2$  are both chloride, III is phosgene. When  $Z^1$  and  $Z^2$  are both 1-imidazolyl, III is carbonyl diimidazole. When  $Z^1$  is chloride and  $Z^2$  is p-nitrophenoxide, III is p-nitrophenyl chloroformate. When  $Z^1$  and  $Z^2$  are both  $\text{OCCl}_3$ , III is triphosgene and as little as one third of molar equivalent can be used.

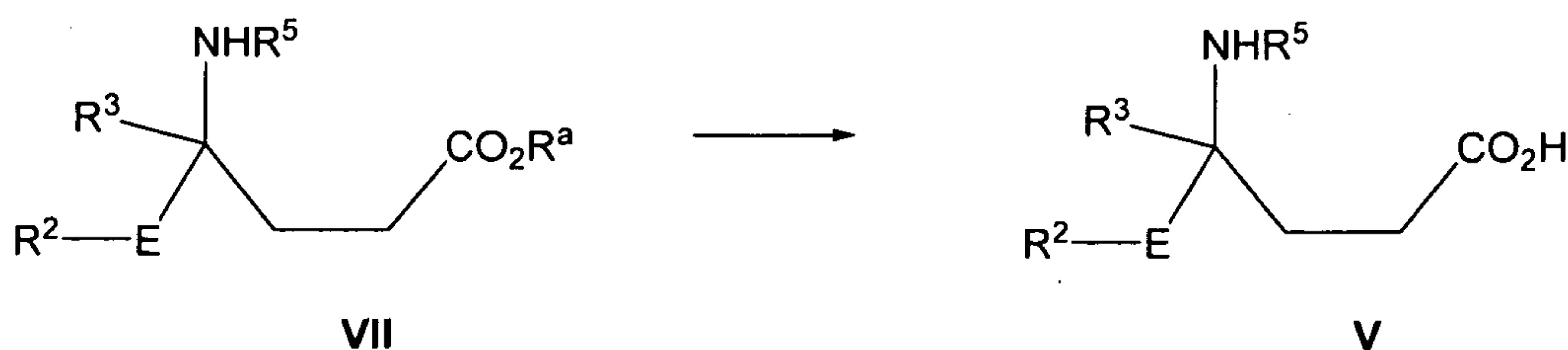
Diamine intermediates of Formula II, wherein  $n = 0$ , can be prepared by reduction of amides of Formula IV using a hydride reagent such as  $\text{BH}_3$ .THF solution,  $\text{BH}_3$ .Me<sub>2</sub>S or  $\text{LiAlH}_4$  in an inert solvent ethereal such as THF or DME at 20 °C to 100 °C for between 1 h and 48 h:



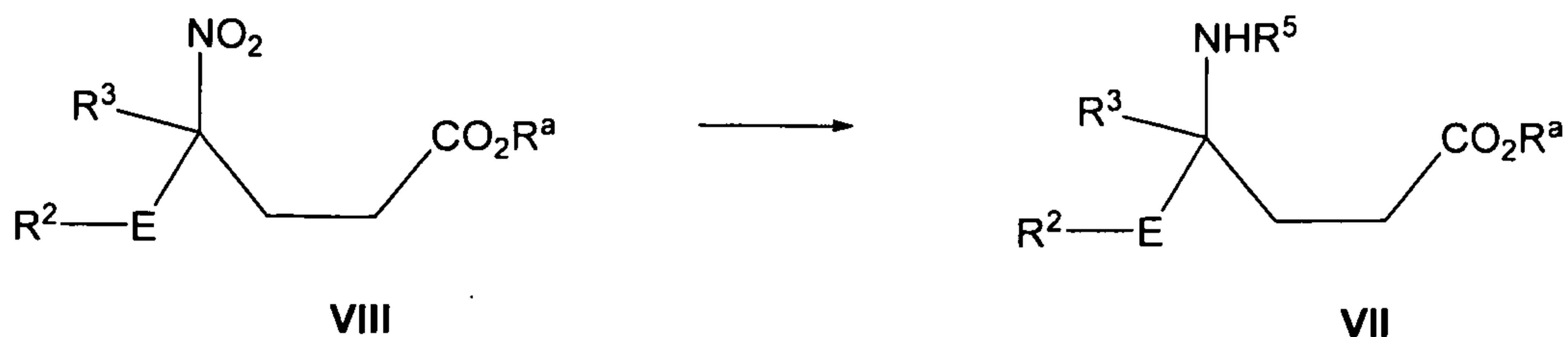
Aminoamide intermediates of Formula IV can be prepared by coupling of a  $\gamma$ -aminoacid of Formula V with an amine of Formula VI using standard peptide coupling reagents such as EDC in the presence of HOBt and N,N-diisopropylethylamine in an inert solvent such as  $\text{CH}_2\text{Cl}_2$  at 0 – 30 °C for between 1 h and 24 h:



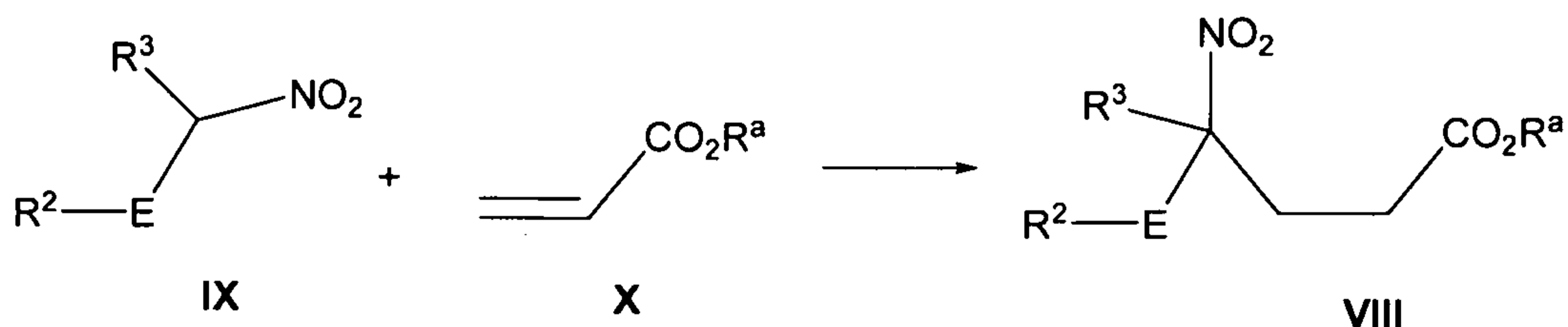
$\gamma$ -Amino acids of Formula V can be prepared hydrolysis of  $\gamma$ -aminoesters of Formula VII, wherein  $\text{R}^a$  is lower alkyl, with LiOH, NaOH or KOH.



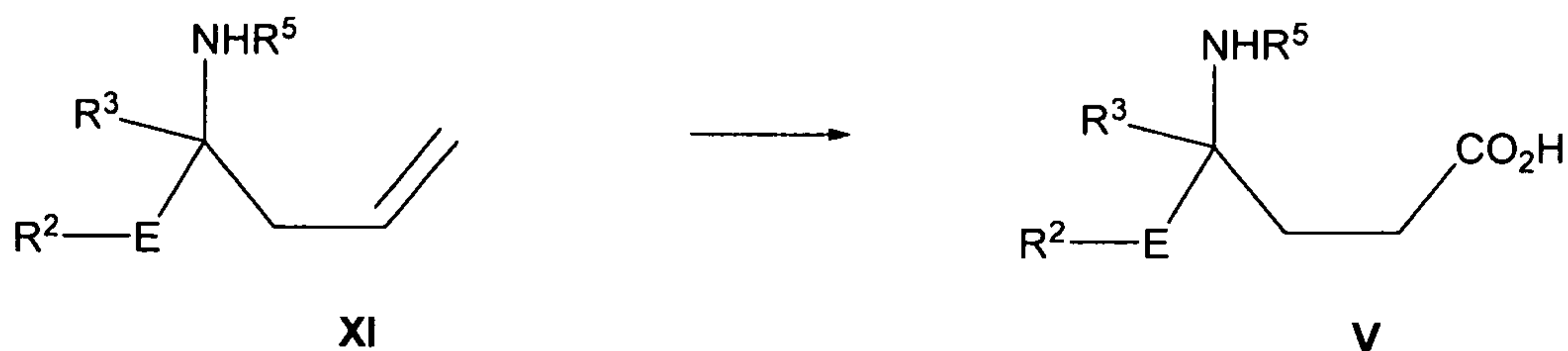
$\gamma$ -Aminoesters of Formula VII, wherein  $\text{R}^5$  is H, can be prepared by reduction of  $\gamma$ -nitroesters of Formula VIII.



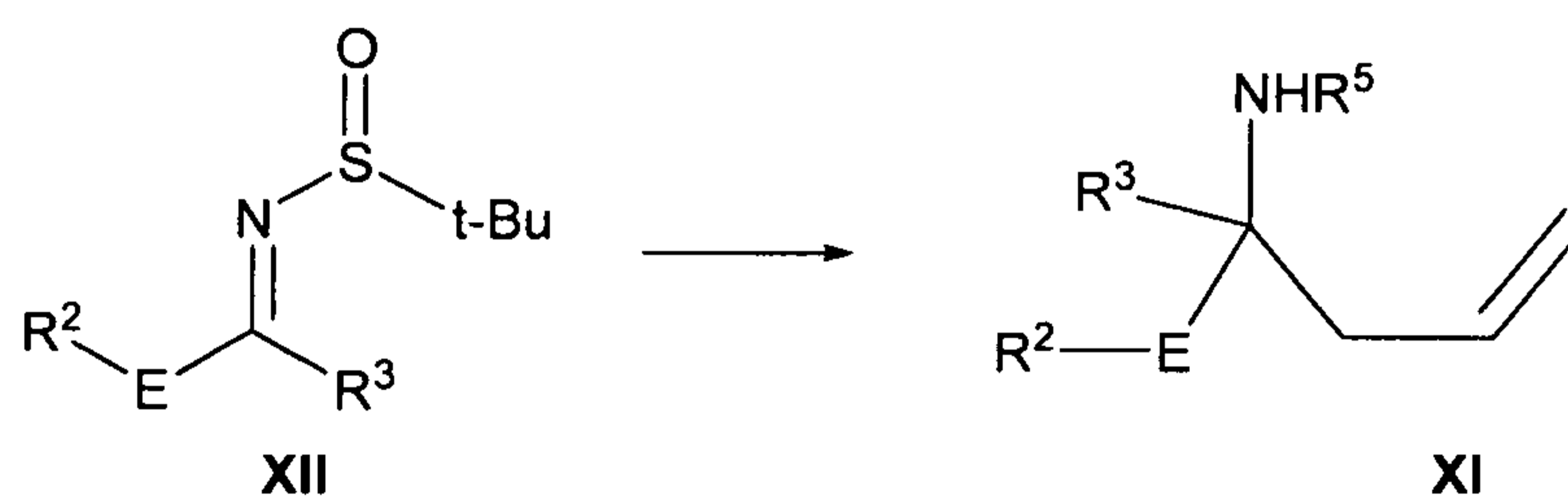
$\gamma$ -Nitroesters of Formula VIII can be prepared by Michael addition of nitro compounds of Formula IX to acrylate esters of Formula X.



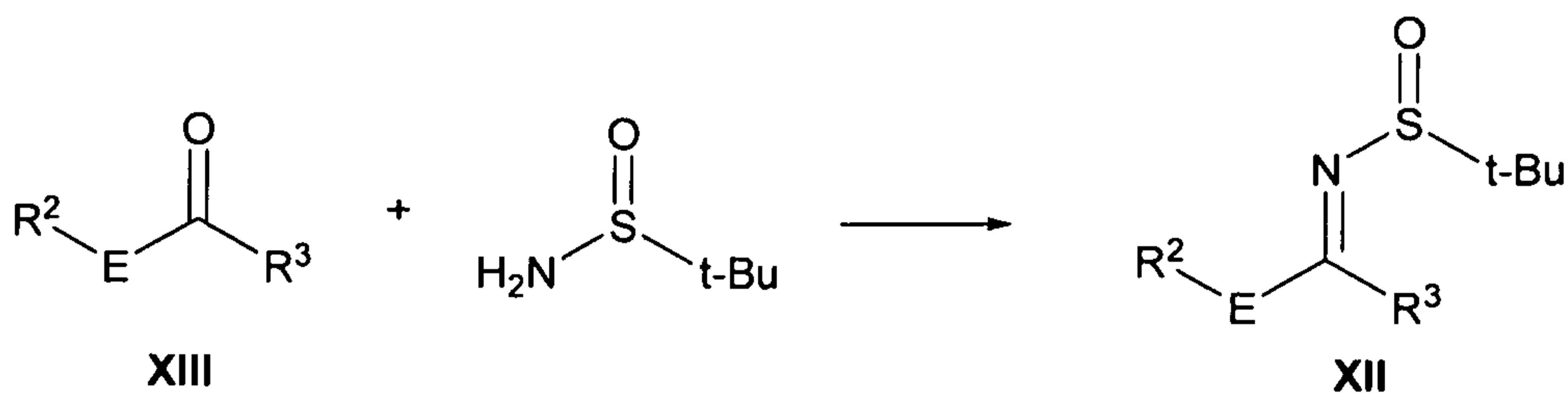
$\gamma$ -Aminoacids of Formula V can also be prepared from homoallyl amines of Formula XI by hydroboration using a borane such as disiamylborane, followed by oxidation with, for example, Jones reagent.



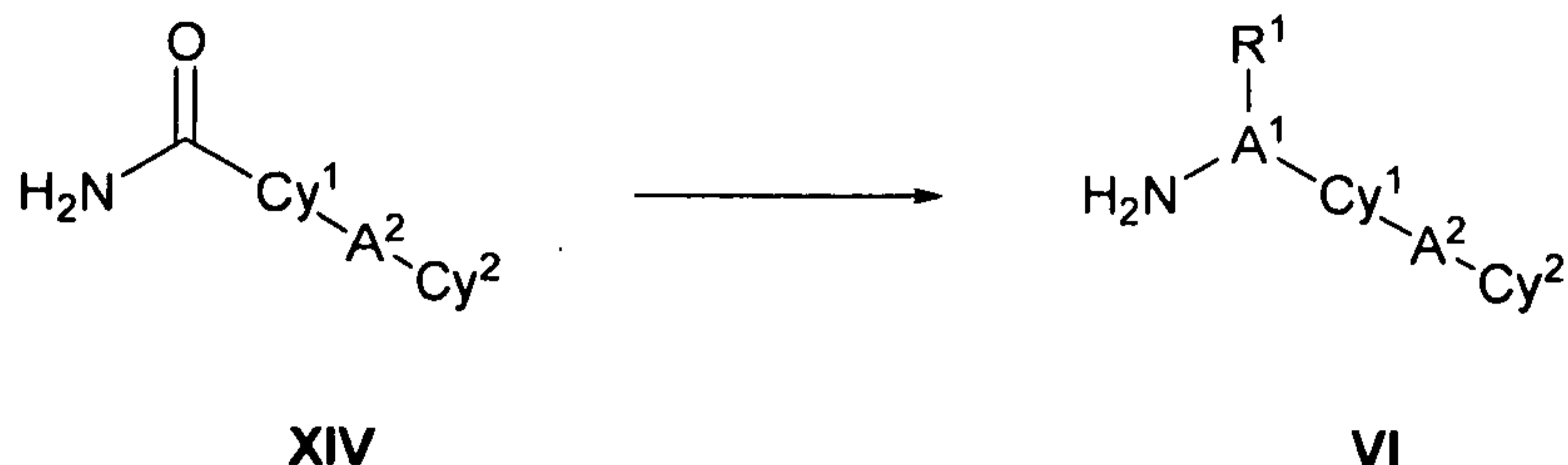
Homoallyl amines of Formula XI can be prepared by addition of allylmagnesium halides to sulfinylimines of Formula XII, followed by acid treatment to remove the *t*-butylsulfinyl group.



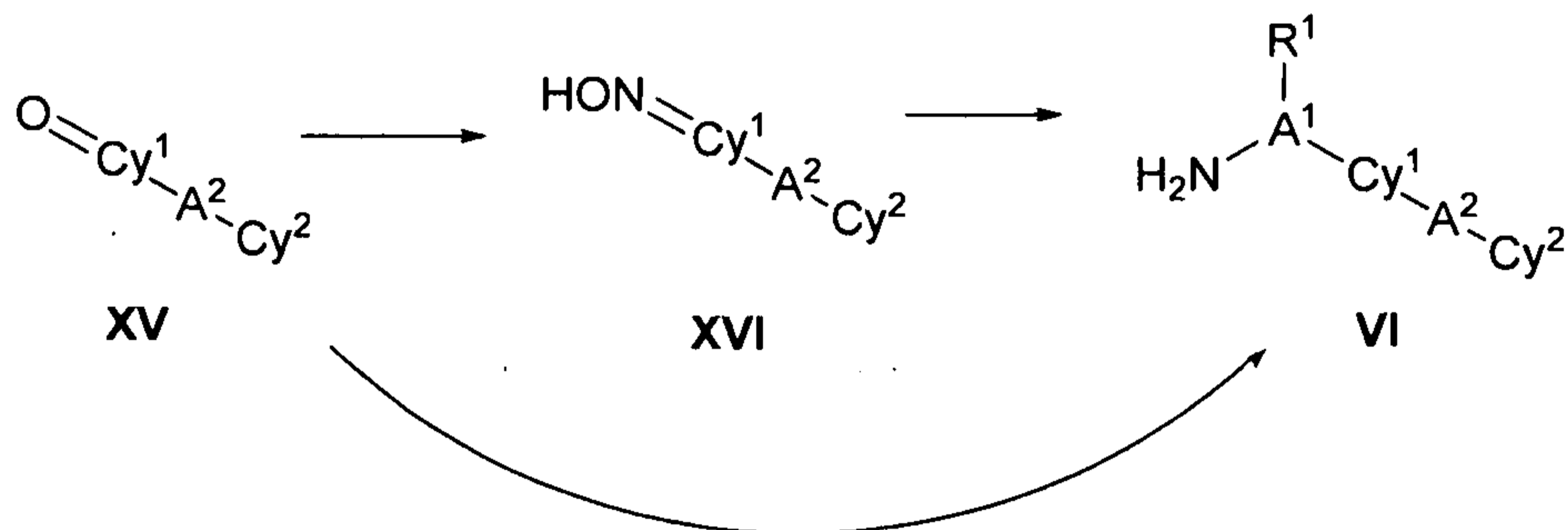
Sulfinylimines of Formula XII can be prepared by reaction of ketones of Formula XIII with 2-methylpropane-2-sulfinamide.



Amine intermediates of Formula VI, wherein  $A^1 = CH_2$  and  $R^1$  is absent, can be prepared by reduction of amides of Formula XIV using a hydride reagent such as  $BH_3$ .THF solution,  $BH_3$ .Me<sub>2</sub>S or  $LiAlH_4$  in an inert solvent ethereal such as THF or DME at 20 °C to 100 °C for between 1 h and 48 h:

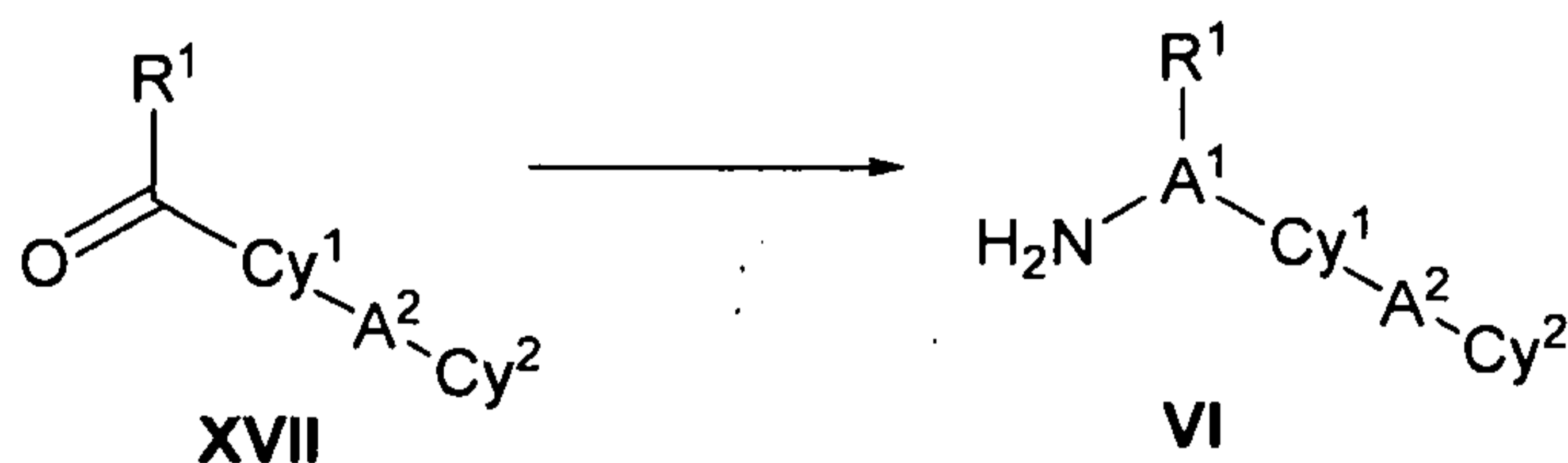


Amine intermediates of Formula VI, wherein  $A^1$  is a bond,  $R^1$  is absent and  $Cy^1$  is not an aromatic or heteroaromatic ring, can be prepared from ketones of formula XV via oximes of Formula XVI or by reductive amination of ketones of Formula XV with ammonia:



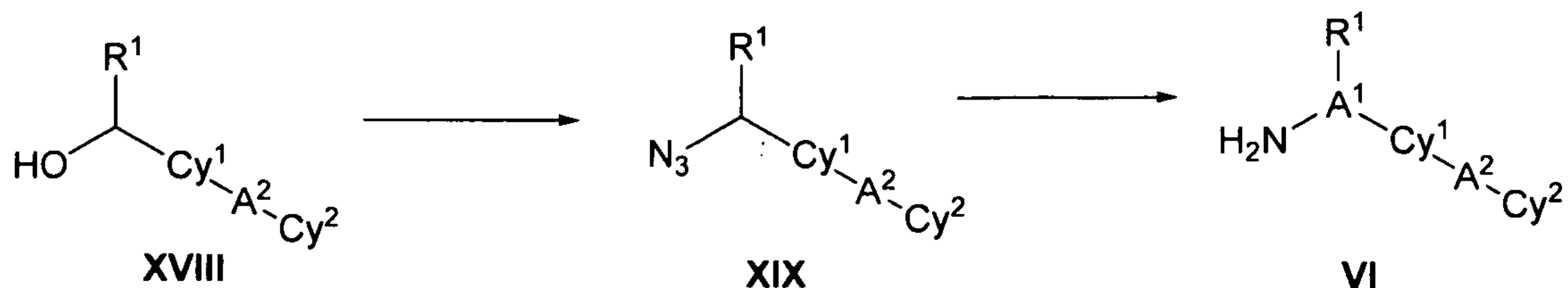
Methods for the conversion of ketones to oximes are described in Smith, M. B. and March, J. "March's Advanced Organic Chemistry" pp 1194-1195, 5<sup>th</sup> Edition, Wiley, New York, NY, 2001. Methods for the reduction of oximes to primary amines are described in Smith, M. B. and March, J. "March's Advanced Organic Chemistry" p 1555, 5<sup>th</sup> Edition, Wiley, New York, NY, 2001. Methods for the reductive amination of ketones are described in Baxter, E. W. and Reitz, A. B. "Organic Reactions" Volume 59, Ed. Overman, L. E., Wiley Interscience, 2002.

Amine intermediates of Formula VI, wherein  $A^1$  is CH, can be prepared from ketones of Formula XVII by reductive amination with ammonia.

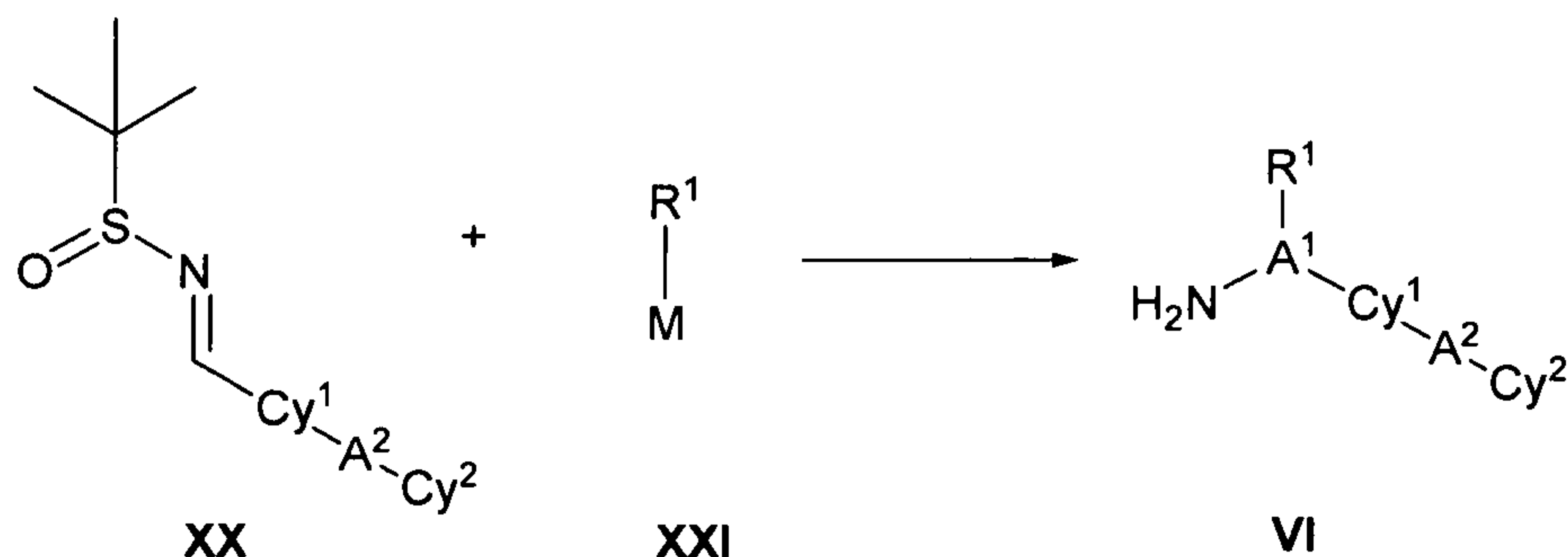


Amine intermediates of Formula VI, wherein  $A^1$  is CH, can be prepared from alcohols of Formula XVIII via azides of Formula XIX. The conversion of alcohols of

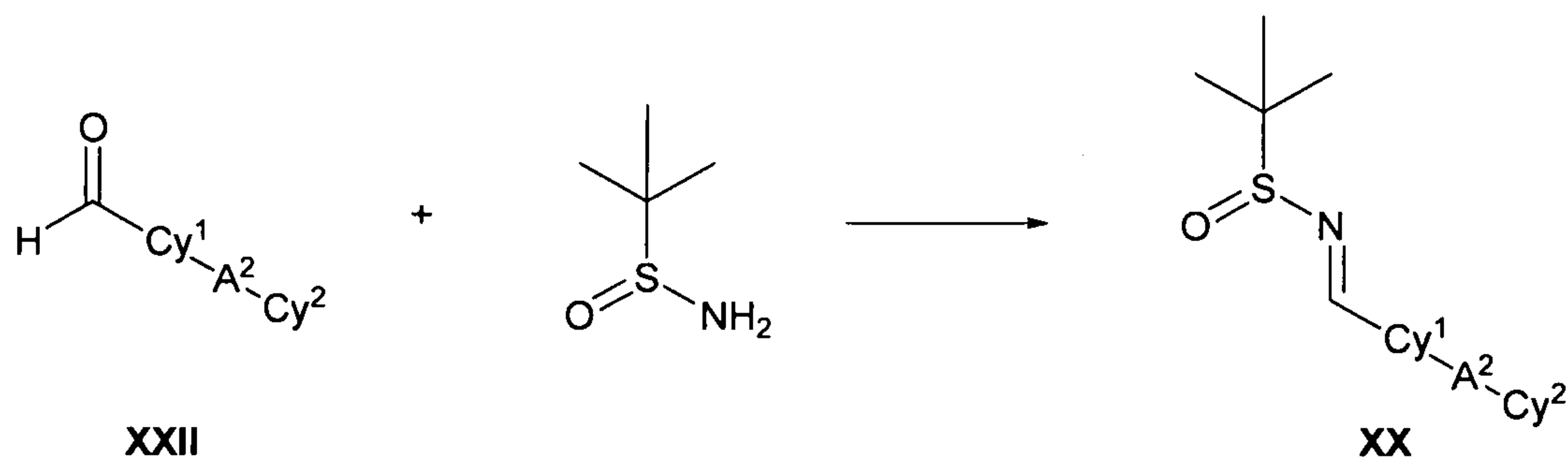
Formula XVIII to azides of Formula XIX can be accomplished with, for example, diphenylphosphoryl azide. Reduction of azides of Formula XIX to amines of Formula VI can be effected, for example, by hydrogenation in the presence of a palladium catalyst or by reaction with triphenylphosphine in wet THF.



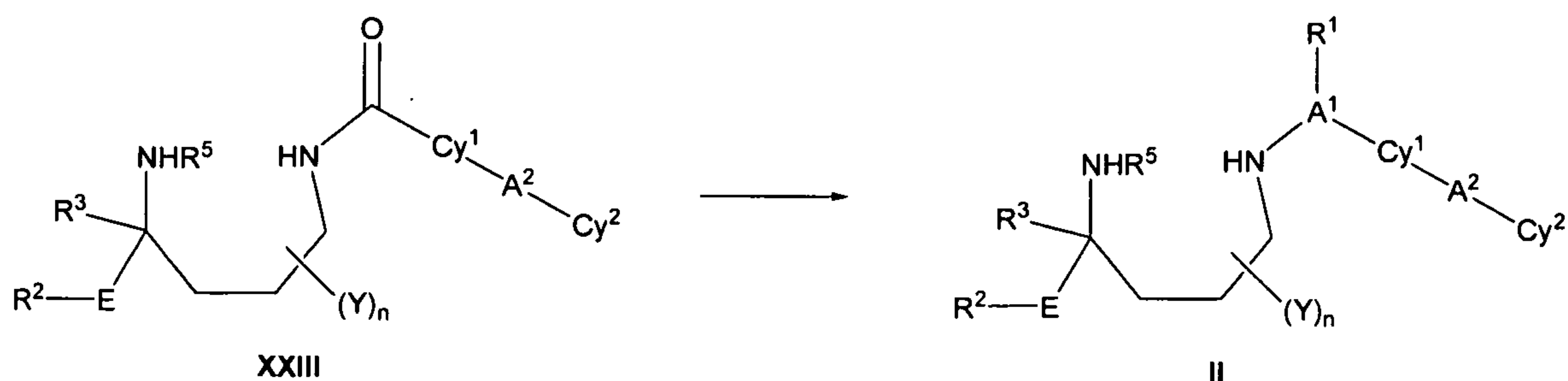
Amine intermediates of Formula VI, wherein A<sup>1</sup> is CH, can be prepared by reaction of sulfinyl imine intermediates of Formula XX with organometallic reagents of Formula XXI, wherein M is Li, MgCl, MgBr or MgI, followed by treatment with acid to remove the t-butylsulfinyl group.



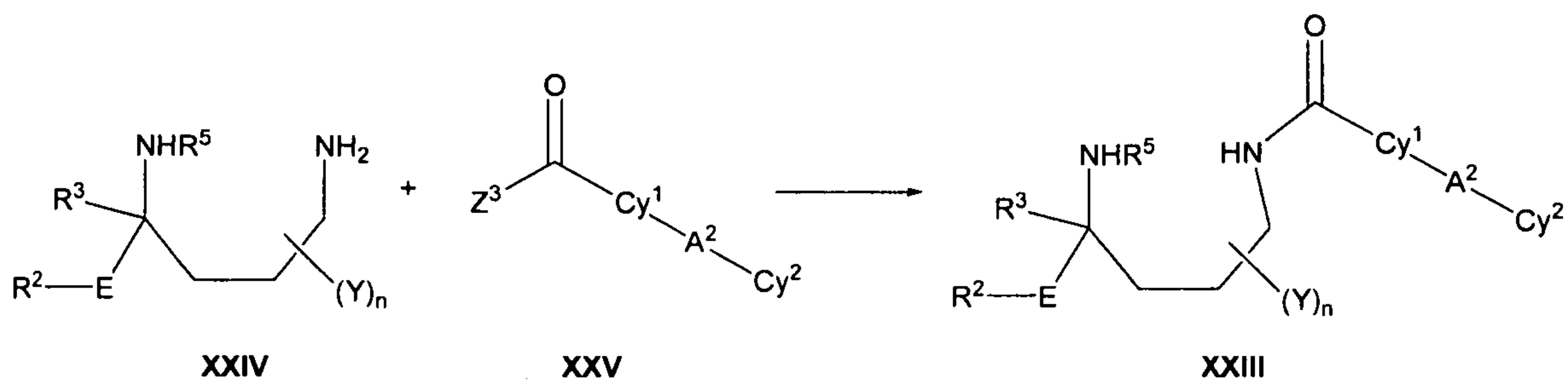
Sulfinyl imines of Formula XX can be prepared by treatment of aldehyde intermediates of Formula XXII with 2-methylpropane-2-sulfinamide.



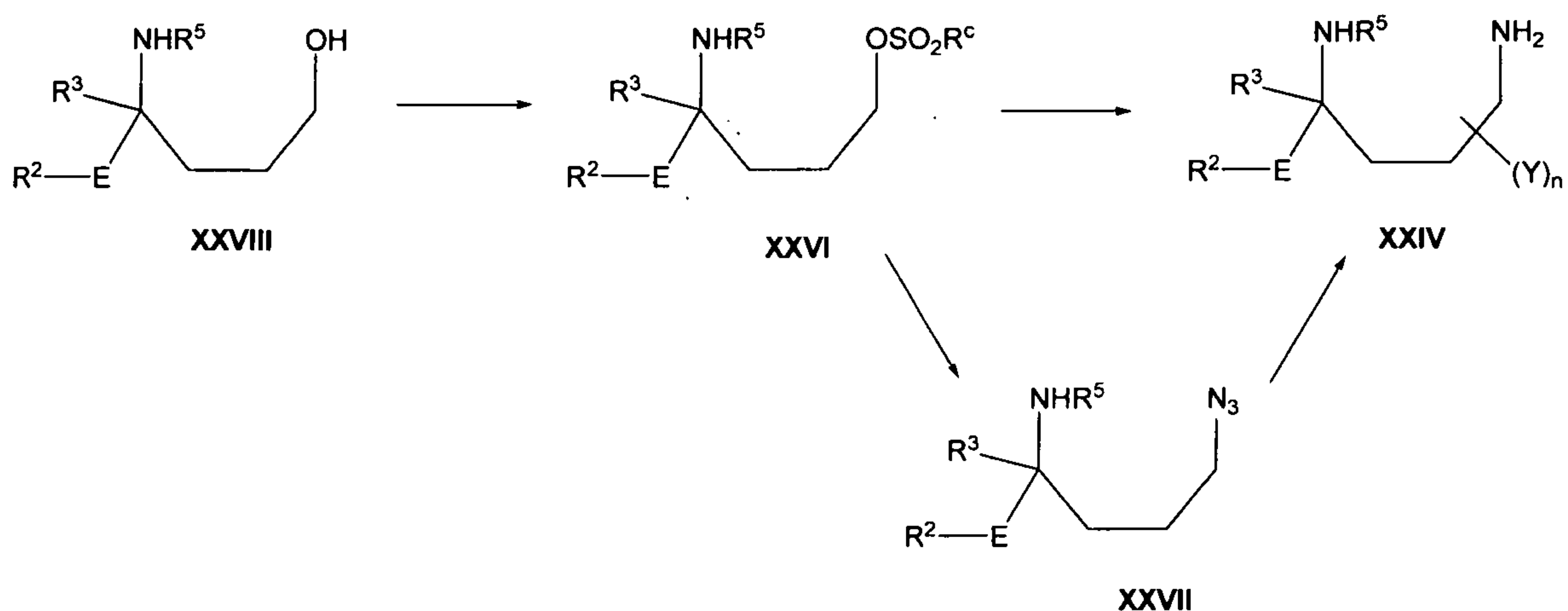
Intermediates of Formula II, wherein A<sup>1</sup> is CH<sub>2</sub> and R<sup>1</sup> is absent, can be prepared by reduction of amide intermediates of formula XXIII using hydride reagents such as BH<sub>3</sub>.THF solution, BH<sub>3</sub>.Me<sub>2</sub>S or LiAlH<sub>4</sub> in an inert solvent ethereal such as THF or DME at 20 °C to 100 °C for between 1 h and 48 h:



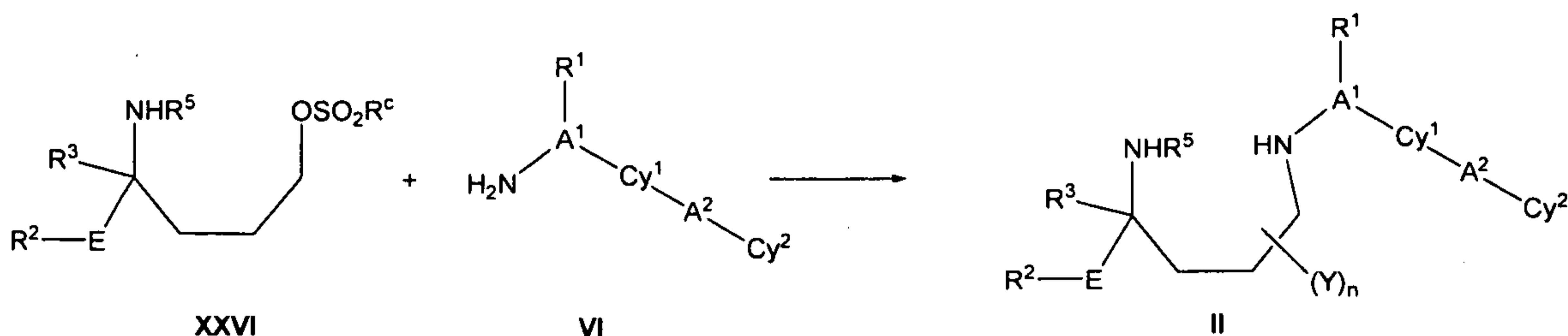
Amide intermediates of Formula XXIII can be prepared by reaction of diamine intermediates of Formula XXIV with activated carboxylic acids of Formula XXV wherein  $Z^3$  is chloride or an activated ester, such as an N-hydroxysuccinimide ester:



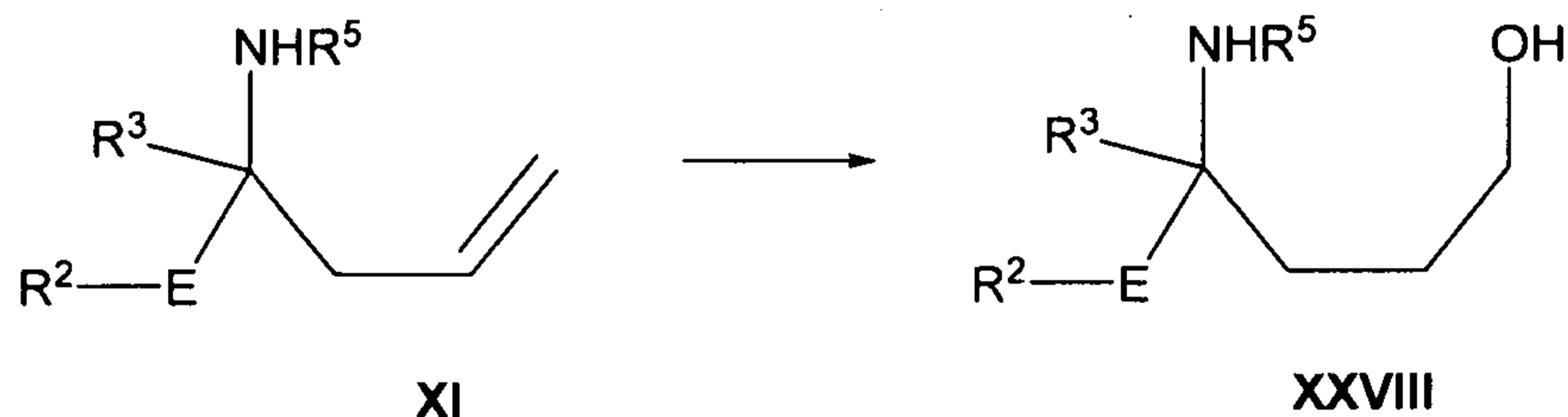
Diamine intermediates of Formula XXIV, wherein  $n$  is 0, can be prepared directly by treatment of sulfonate intermediates of Formula XXVI, wherein  $R^c$  is for example methyl, trifluoromethyl or *p*-methylphenyl, with ammonia. Alternatively, sulfonate intermediates of Formula XXVI can be treated with  $\text{NaN}_3$  to give azides XXVII, followed by reduction using  $\text{PPh}_3$  in wet THF or  $\text{H}_2$  gas and a palladium catalyst to give diamines of Formula XXIV.



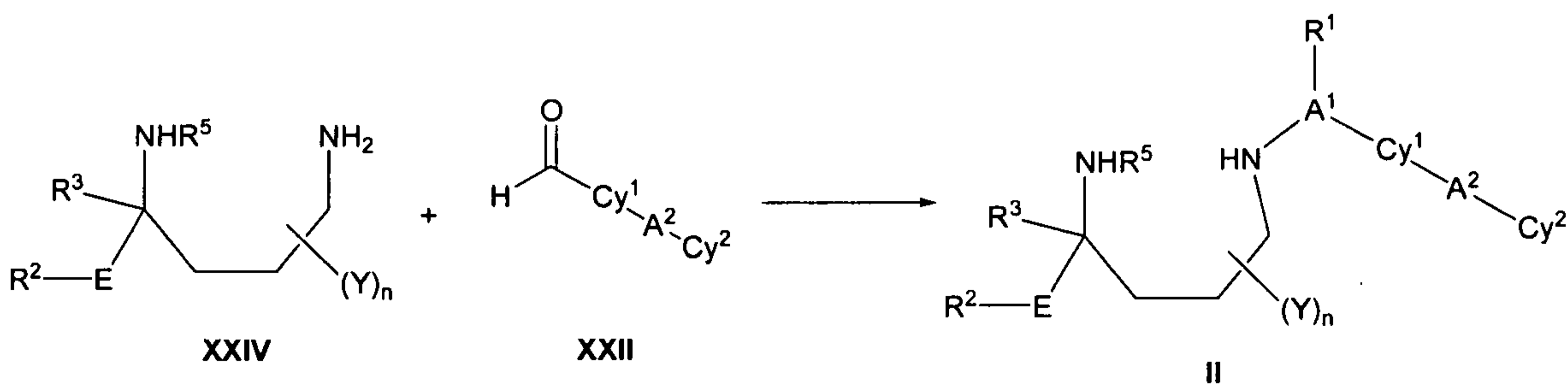
Sulfonate intermediates of Formula XXVI are prepared by reaction of, preferably N-protected, aminoalcohol intermediates Formula XXVIII with  $\text{R}^c\text{SO}_2\text{Cl}$  or  $(\text{R}^c\text{SO}_2)_2\text{O}$ . In addition sulfonate intermediates of Formula XXVI can be reacted with amines of Formula VI to afford diamine intermediates of Formula II:



Aminoalcohol intermediates of Formula XXVIII can be prepared by hydroboration of homoallylic amines of Formula XI:

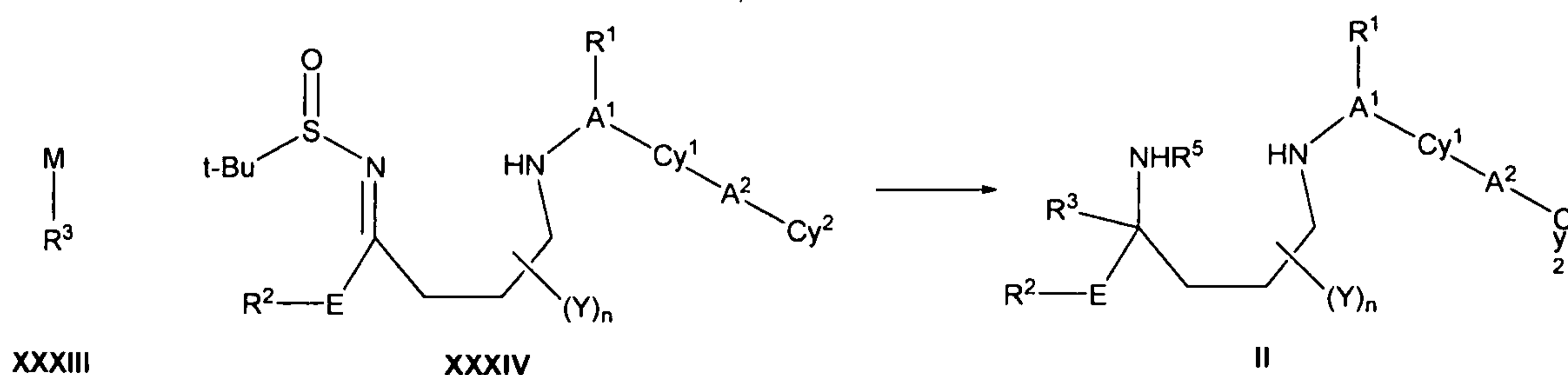


Diamine intermediates of Formula II, wherein  $A^1$  is  $\text{CH}_2$  and  $R^1$  is absent, can be prepared by reaction of, preferably protected, diamines of Formula XXIV with aldehydes of Formula XXII in the presence of a reducing agent such as  $\text{NaCNBH}_3$  or  $\text{Na(OAc)}_3\text{BH}$ :

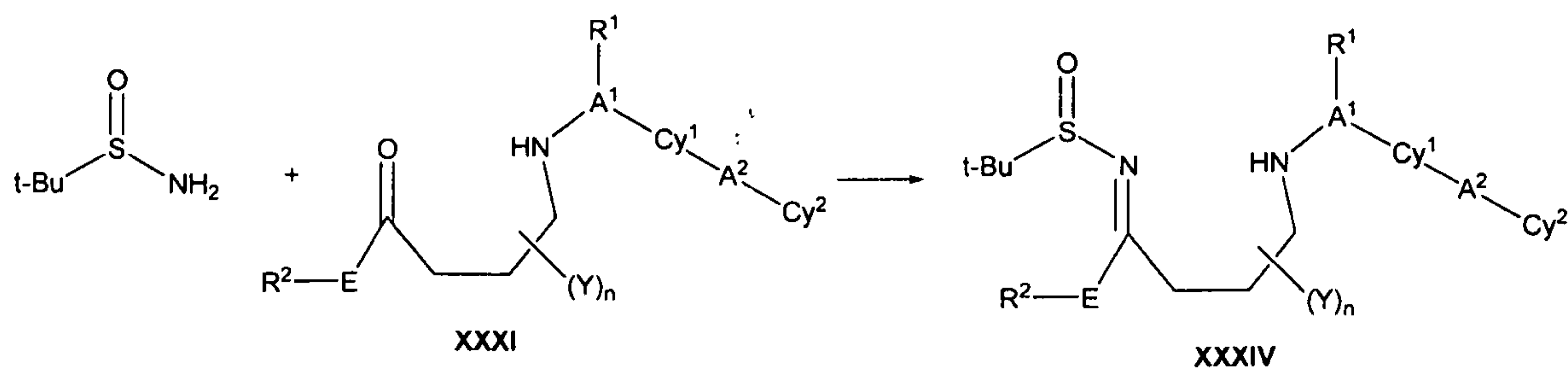


Methods for the reductive amination of aldehydes and ketones are described in Baxter, E. W. and Reitz, A. B. "Organic Reactions" Volume 59, Ed. Overman, L. E., Wiley Interscience, 2002.

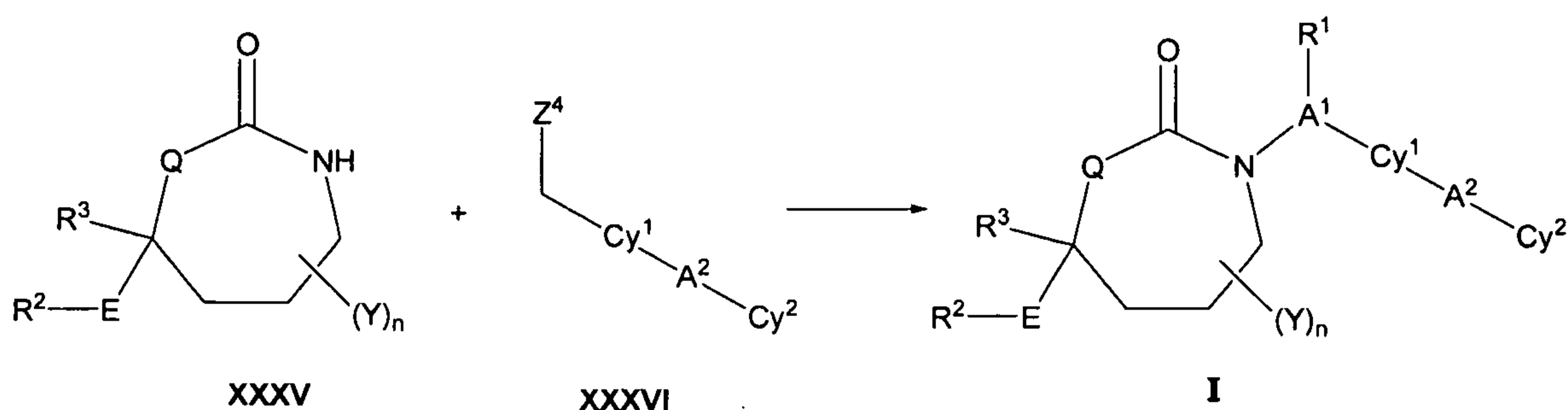
Diamines of Formula II can also be prepared by addition of organometallic reagents of Formula XXXIII to sulfinylimines of Formula XXXIV.



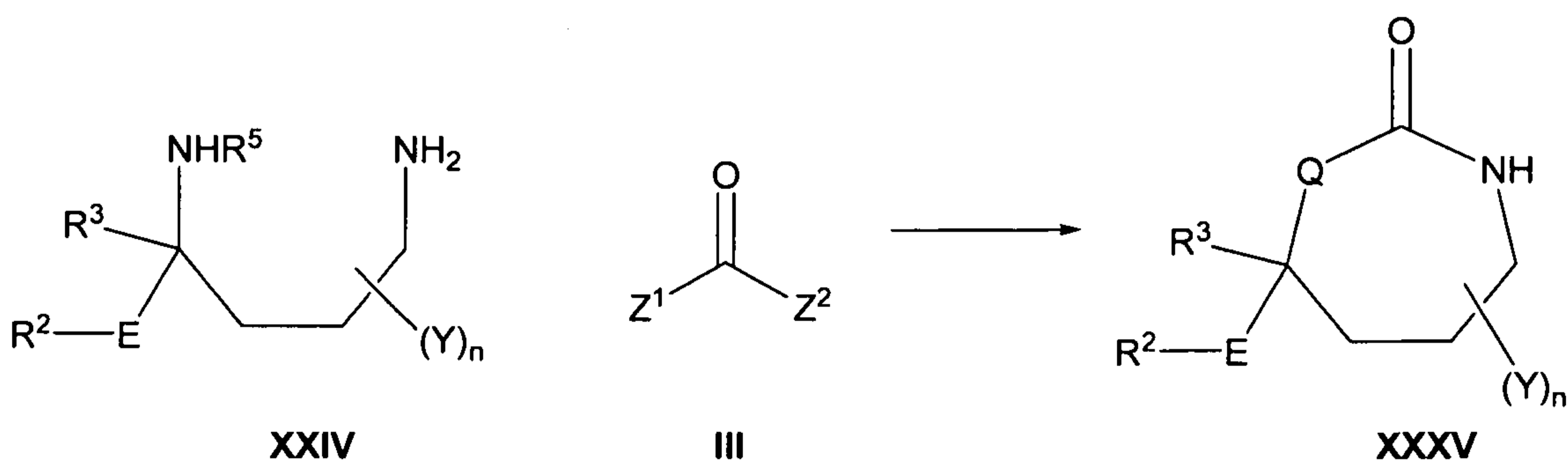
Sulfinylimines of Formula XXXIV can be prepared by condensation of ketoamides of Formula XXXI with 2-methylpropane-2-sulfinamide.



In a second process compounds of Formula I, wherein  $R^1$  is absent and  $A^1$  is  $\text{CH}_2$ , can be prepared by reaction of compounds of Formula XXXV, with alkylating agents of Formula XXXVI, wherein  $Z^4$  is a leaving group such as Br, I,  $\text{OSO}_2\text{Me}$ ,  $\text{OSO}_2\text{CF}_3$  or  $\text{OSO}_2\text{Ph}$ , in the presence of a base such as NaH or  $\text{K}_2\text{CO}_3$ :

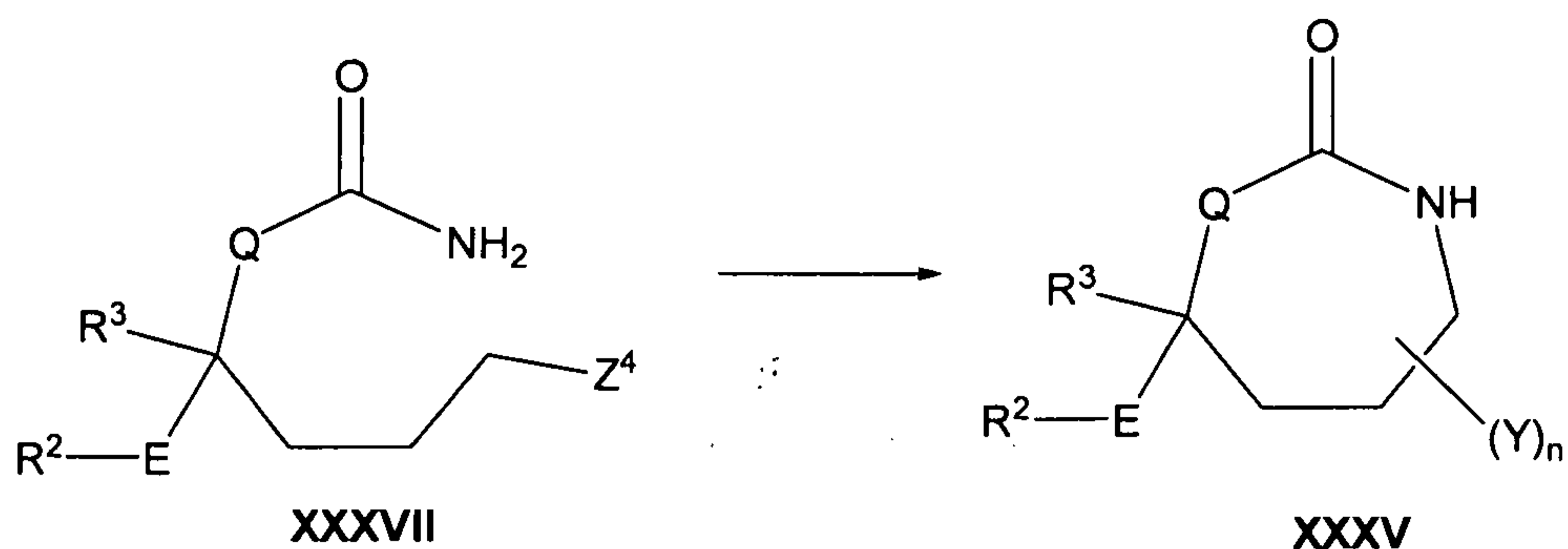


Compounds of Formula XXXV, wherein Q is  $\text{NR}^5$ , can be prepared by treatment of compounds of Formula XXIV with various reagents of Formula III, wherein  $Z^1$  and  $Z^2$  are leaving groups such as chloride, 1-imidazolyl or aryloxy in an inert solvent such as THF,  $\text{CH}_2\text{Cl}_2$ , toluene or MeCN, usually in the presence of an organic or inorganic base such as triethylamine or  $\text{NaHCO}_3$  respectively, at  $-10\text{ }^\circ\text{C}$  to  $120\text{ }^\circ\text{C}$ :

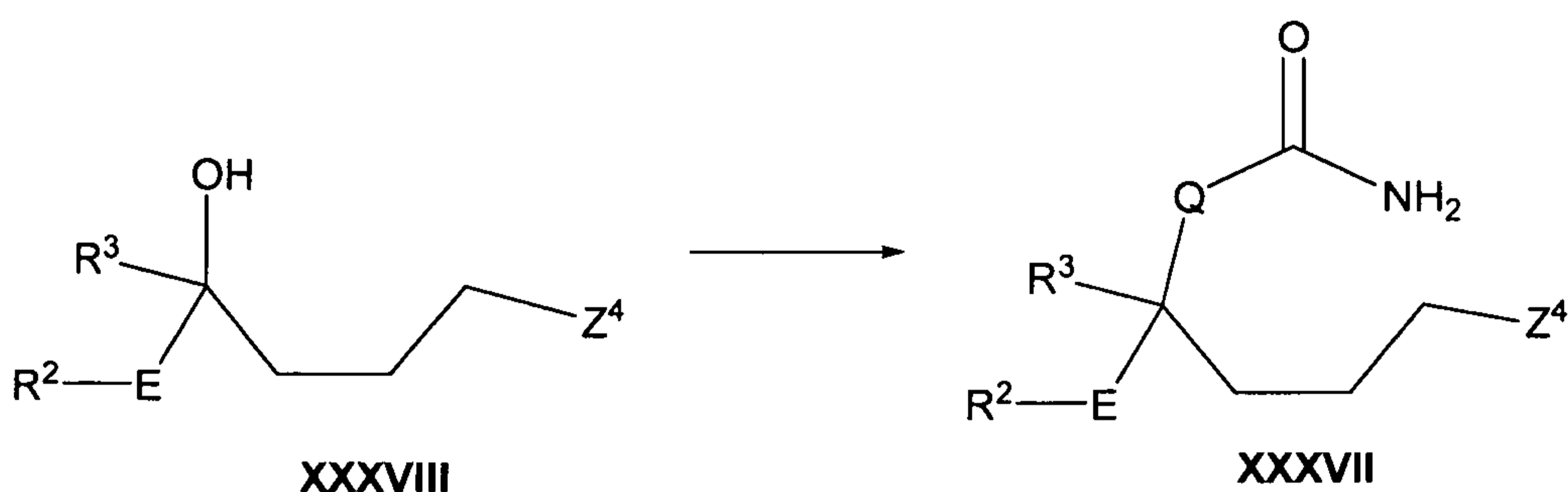


Compounds of Formula XXXV, wherein  $n$  is 0, Q is O or  $\text{NR}^5$  and  $R^5$  is  $(\text{C}_1\text{-C}_6)\text{alkyl}$ , can be prepared by treatment of intermediates of Formula XXXVII with strong bases, such as sodium hydride, in inert solvents, such as DMF.

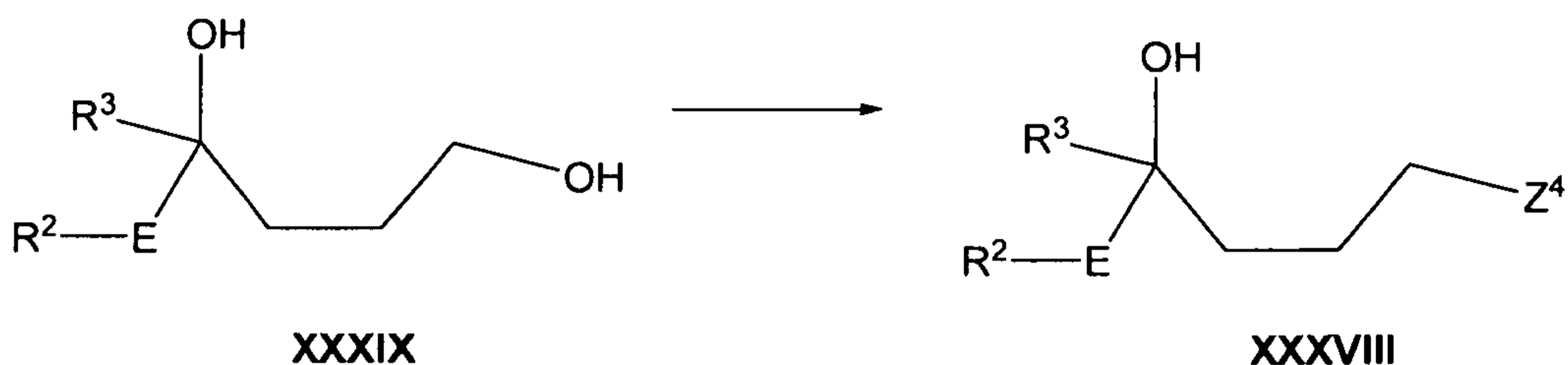




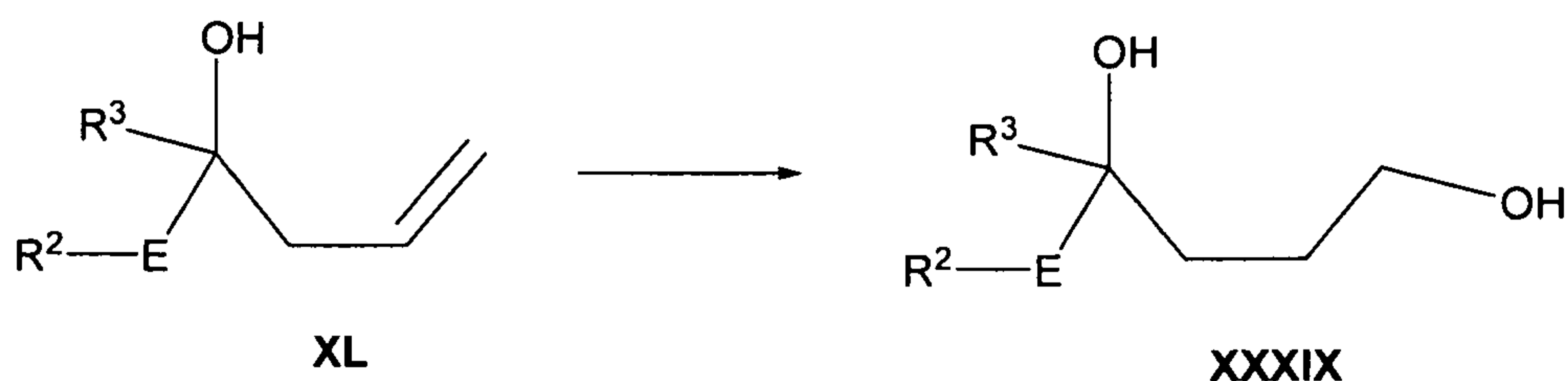
Intermediates of Formula XXXVII, wherein Q is O, can be prepared from alcohols of Formula XXXVIII by treatment with HNCO, prepared from *in situ* from KNCO and  $\text{CF}_3\text{CO}_2\text{H}$ , with  $\text{Me}_3\text{SiNCO}$  or with  $\text{Cl}_3\text{CC}(=\text{O})\text{NCO}$ .



Alcohols of Formula XXXVIII, wherein  $\text{Z}^4$  is a sulfonate, such as  $\text{OSO}_2\text{Me}$ ,  $\text{OSO}_2\text{CF}_3$  or  $\text{OSO}_2\text{Ph}$ , can be prepared diols of Formula XXXIX by treatment with a sulfonyl chlorides, such as  $\text{MeSO}_2\text{Cl}$  or  $\text{PhSO}_2\text{Cl}$ , or sulfonic anhydrides, such as methanesulfonic anhydride or triflic anhydride.

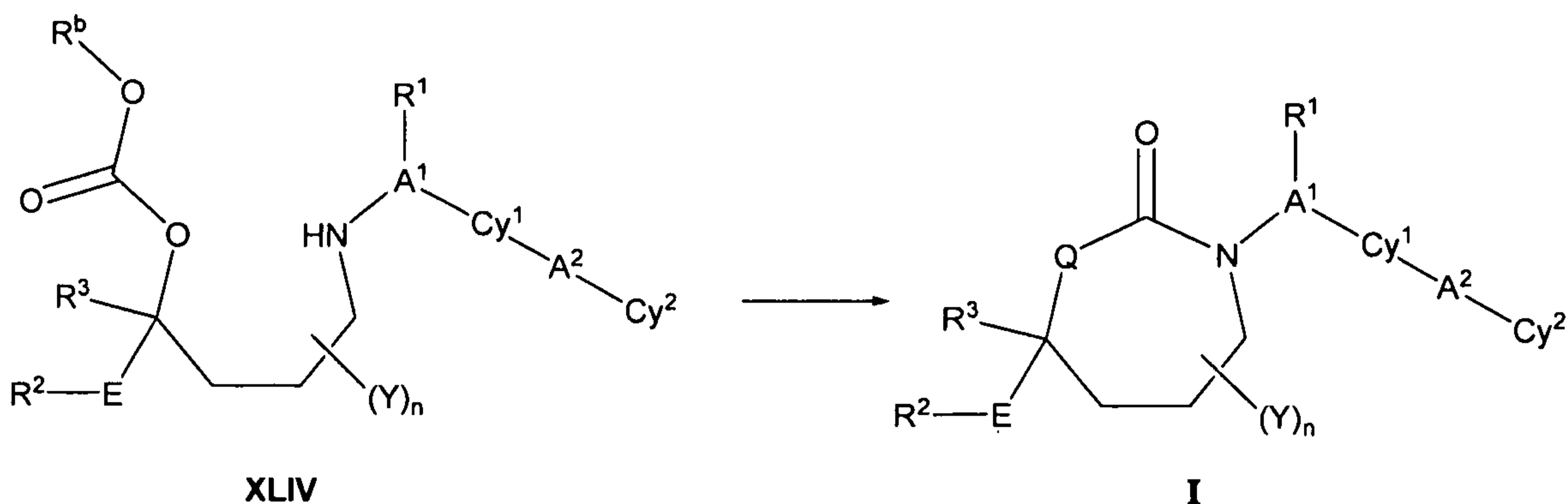


Diols of Formula XXXIX can be prepared by hydroboration of homoallylic alcohols of Formula XL, using, for example diasiamylborane.

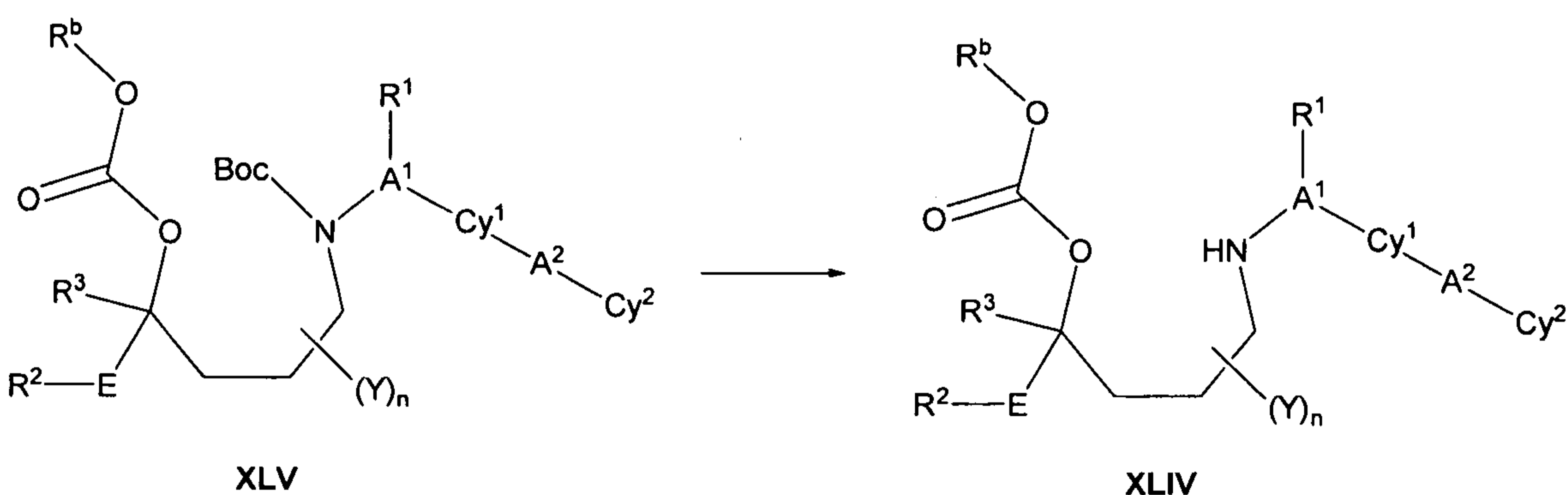


Homoallylic alcohols of Formula XL can be prepared from aldehydes or ketones of Formula XIII and allyl organometallic reagents of Formula XLI, wherein M is  $\text{MgBr}$ ,  $\text{MgCl}$  or  $\text{SiMe}_3$ .





Carbonates of Formula XLIV can be prepared by deprotection of precursors such as XLV.



In a fifth process a compound of Formula I can be prepared from another compound of Formula I. For example:

(1) a compound of Formula I wherein  $Cy^1$  is substituted with bromine or iodine,  $A^2$  is a bond and  $Cy^2$  is hydrogen can be reacted with an optionally substituted aryl or heteroarylboronic acid or ester in the presence of a palladium catalyst to give a compound of Formula I wherein  $A^2$  is a bond and  $Cy^2$  is optionally substituted aryl or heteroaryl.

(2) a compound of Formula I wherein  $R^1$  or  $R^3$  is  $\omega$ -hydroxy( $C_2$ - $C_6$ )alkyl can be oxidized to a compound of Formula I wherein  $R^1$  or  $R^3$  is  $\omega$ -carboxy( $C_1$ - $C_5$ )alkyl using Jones reagent.

(3) a compound of Formula I wherein  $R^1$  or  $R^3$  is  $\omega$ -carboxy( $C_1$ - $C_6$ )alkyl can be coupled with ammonia or a ( $C_1$ - $C_6$ )alkylamine using a standard peptide coupling reagent such as EDC to afford a compound of Formula I wherein  $R^1$  or  $R^3$  is  $\omega$ - $H_2NC(=O)(C_1-C_6)alkyl$  or  $\omega$ - $\{(C_1-C_6)alkylNHC(=O)\}(C_1-C_6)alkyl$ .

(4) a compound of Formula I wherein  $R^1$  or  $R^3$  is  $\omega$ -hydroxy( $C_1$ - $C_6$ )alkyl can be converted to its methanesulfonate or trifluoromethanesulfonate, treated with sodium azide and reduced to give a compound of Formula I, wherein  $R^1$  or  $R^3$  is  $\omega$ -amino( $C_1$ - $C_6$ )alkyl.

(5) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with acetic anhydride or acetyl chloride to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is {acetylamino}(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(6) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with methanesulfonyl chloride to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is {methanesulfonylamino}(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(7) a compound of Formula I, wherein R<sup>1</sup> is (C<sub>2</sub>-C<sub>6</sub>)alkenyl, is hydroborated to afford a compound of Formula I wherein R<sup>1</sup> is hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkyl.

(8) a compound of Formula I, wherein R<sup>3</sup> is (C<sub>2</sub>-C<sub>6</sub>)alkenyl, is hydroborated to afford a compound of Formula I wherein R<sup>3</sup> is hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkyl.

(9) a compound of Formula I, wherein R<sup>1</sup> is (C<sub>2</sub>-C<sub>6</sub>)alkenyl, can be reacted with osmium tetroxide and N-methylmorpholine-N-oxide to afford a compound of Formula I wherein R<sup>1</sup> is vicinal dihydroxy(C<sub>2</sub>-C<sub>6</sub>)alkyl.

(10) a compound of Formula I, wherein R<sup>3</sup> is (C<sub>2</sub>-C<sub>6</sub>)alkenyl, can be reacted with osmium tetroxide and N-methylmorpholine-N-oxide to afford a vicinal diol compound of Formula I wherein R<sup>3</sup> is vicinal dihydroxy(C<sub>2</sub>-C<sub>6</sub>)alkyl.

(11) a compound of Formula I, wherein R<sup>1</sup> is H<sub>2</sub>C=CH(C<sub>0</sub>-C<sub>4</sub>)alkyl-, can be reacted with ozone followed by NaBH<sub>4</sub> to give a compound of Formula I wherein R<sup>1</sup> is ω-hydroxy(C<sub>1</sub>-C<sub>5</sub>)alkyl.

(12) a compound of Formula I, wherein R<sup>3</sup> is H<sub>2</sub>C=CH(C<sub>0</sub>-C<sub>4</sub>)alkyl-, can be reacted with ozone followed by NaBH<sub>4</sub> to give a compound of Formula I wherein R<sup>3</sup> is ω-hydroxy(C<sub>1</sub>-C<sub>5</sub>)alkyl.

(13) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with an (C<sub>1</sub>-C<sub>6</sub>)alkyl isocyanate to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(14) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with an (C<sub>1</sub>-C<sub>6</sub>)alkyl chloroformate to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(15) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with chlorosulfonyl isocyanate or sulfamide to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is aminosulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(16) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is amino(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with a (C<sub>1</sub>-C<sub>6</sub>)alkylsulfamoyl chloride to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(17) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with chlorosulfonyl isocyanate to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is aminosulfonyloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(18) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with p-nitrophenyl chloroformate, pentafluorophenyl chloroformate or carbonyl diimidazole, followed by ammonia, a (C<sub>1</sub>-C<sub>6</sub>)alkylamine or a di(C<sub>1</sub>-C<sub>6</sub>)alkylamine to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is aminocarboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl aminocarboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or di(C<sub>1</sub>-C<sub>6</sub>)alkyl aminocarboxy(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(19) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl can be reacted with POCl<sub>3</sub> to give a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is (HO)<sub>2</sub>P(=O)O(C<sub>1</sub>-C<sub>6</sub>)alkyl.

(20) a compound of Formula I wherein Cy<sup>1</sup> is substituted with bromine or iodine, A<sup>2</sup> is a bond and Cy<sup>2</sup> is hydrogen can be reacted with a cyclic amine in the presence of a palladium catalyst to give a compound of Formula I wherein A<sup>2</sup> is a bond and Cy<sup>2</sup> is a cyclic amino moiety attached through its nitrogen atom.

(21) a compound of Formula I wherein Q is NR<sup>5</sup> and R<sup>5</sup> is H can be reacted with an (C<sub>1</sub>-C<sub>6</sub>)alkyl halide in the presence of a strong base such as sodium hydride to afford a compound of Formula I wherein Q is NR<sup>5</sup> and R<sup>5</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl.

(22) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is ω-H<sub>2</sub>NCO(C<sub>1</sub>-C<sub>5</sub>)alkyl can be reacted with TFAA in the presence of pyridine to afford a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is ω-cyano(C<sub>1</sub>-C<sub>5</sub>)alkyl.

(23) a compound of Formula I, wherein R<sup>1</sup> or R<sup>3</sup> is ω-MeO<sub>2</sub>C(C<sub>1</sub>-C<sub>5</sub>)alkyl can be reacted with at least 2 equivalents of MeMgBr to afford a compound of Formula I, wherein R<sup>1</sup> or R<sup>3</sup> is HOC(Me)<sub>2</sub>(C<sub>1</sub>-C<sub>5</sub>)alkyl.

(24) a compound of Formula I wherein R<sup>1</sup> or R<sup>3</sup> is ω-hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl can be converted to its methanesulfonate or trifluoromethanesulfonate and reacted with morpholine to give a compound of Formula I, wherein R<sup>1</sup> or R<sup>3</sup> is ω-(4-morpholino)(C<sub>1</sub>-C<sub>6</sub>)alkyl.

## PURIFICATION METHODS

Compounds of the invention can be purified by high pressure liquid chromatography (prep HPLC). Unless otherwise specified, prep HPLC refers to

preparative reverse phase HPLC on a C-18 column eluted with a water/acetonitrile gradient containing 0.01% TFA run on a Gilson 215 system.

### LC-MS METHODS

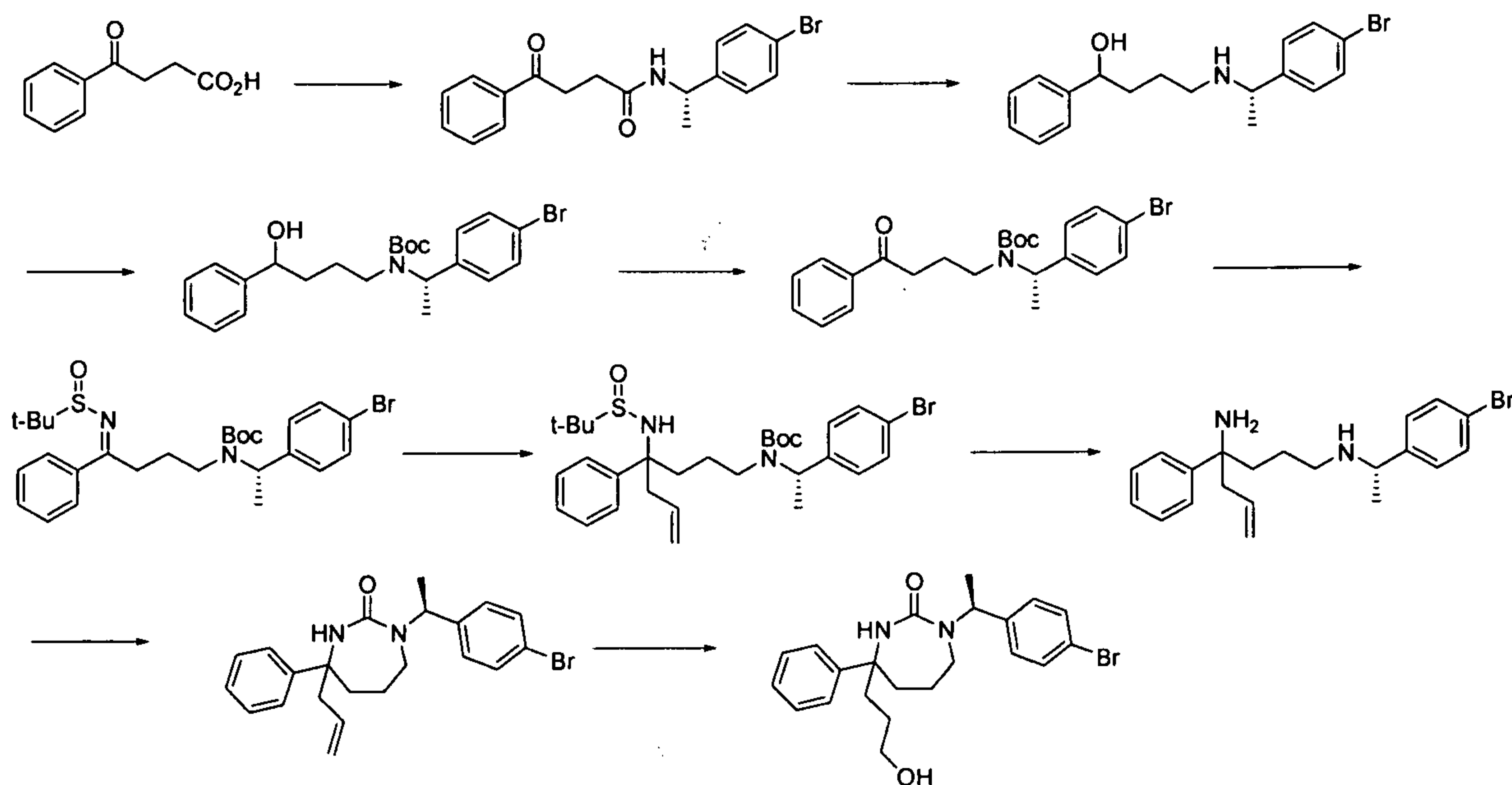
#### Method 1 [LC-MS (3 min)]

Column: Chromolith SpeedRod, RP-18e, 50 x 4.6 mm; Mobil phase: A: 0.01%TFA/water, B: 0.01%TFA/CH<sub>3</sub>CN; Flow rate: 1 mL/min; Gradient:

Time (min)	A%	B%
0.0	90	10
2.0	10	90
2.4	10	90
2.5	90	10
3.0	90	10

### EXAMPLE 1

#### 1-((S)-1-(4-bromophenyl)ethyl)-4-(3-hydroxypropyl)-4-phenyl-1,3-diazepan-2-one



#### Step 1

To a stirred solution of benzoylpropionic acid (2.00 g, 11.2 mmol), (S)-1-(4-bromophenyl)ethanamine (2.25 g, 11.2 mmol), HOBt (1.72 g, 11.2 mmol) and *i*-Pr<sub>2</sub>NEt (2.2 mL, 12.3 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (40 mL) was added EDC.HCl (2.37 g, 12.3 mmol). The mixture was stirred at rt for 4 h and diluted with EtOAc (140 mL) and 5%

aq HCl (50 mL). The mixture was filtered and (S)-N-(1-(4-bromophenyl)ethyl)-4-oxo-4-phenylbutanamide (3.80 g, 93%) was collected as a white solid.  $^1\text{H}$  NMR ( $\text{d}_6$ -DMSO)  $\delta$  1.28 (d, 3H), 2.50 (m, 2H), 3.19 (m, 2H), 4.82 (m, 1H), 7.23 (d, 2H), 7.47 (4H), 7.59 (m, 1H), 7.92 (d, 2H), 8.38 (d, 1H).

#### Step 2

A 250-mL RBF equipped with a magnetic stirbar was charged with solid (S)-N-(1-(4-bromophenyl)ethyl)-4-oxo-4-phenylbutanamide (2.85 g, 7.9 mmol) and placed in an ice bath. To the stirred solid was added 1.0 M  $\text{BH}_3$  in THF (30 mL, 30 mmol). The ice bath was removed and the mixture was stirred at rt for 2.5 h. The mixture was poured into 5% aq HCl (100 mL) and concentrated under reduced pressure to remove the THF. The aqueous residue was basified to pH 14 by portionwise addition of NaOH pellets. The mixture was extracted with  $\text{CH}_2\text{Cl}_2$  (2 x 100 mL). The combined  $\text{CH}_2\text{Cl}_2$  extracts were dried over  $\text{Na}_2\text{SO}_4$ . Removal of the solvent afforded crude 4-((S)-1-(4-bromophenyl)ethylamino)-1-phenylbutan-1-ol (2.58 g, 94%) as an oil. LC-MS Method 1  $t_R = 1.20$  min,  $m/z = 348, 350$ .

#### Step 3

To a stirred solution of crude 4-((S)-1-(4-bromophenyl)ethylamino)-1-phenylbutan-1-ol (2.46 g, 7.1 mmol) in THF (40 mL) was added 10% aq  $\text{K}_2\text{CO}_3$  (40 mL), followed by di-*t*-butyl dicarbonate (1.90 g, 8.5 mmol). The mixture was stirred overnight at rt and concentrated to remove THF. The aqueous residue was extracted with EtOAc (2 x 80 mL). The combined EtOAc extracts were washed with brine (40 mL) and dried over  $\text{MgSO}_4$ . Removal of the solvent left tert-butyl (S)-1-(4-bromophenyl)ethyl(4-hydroxy-4-phenylbutyl)carbamate (3.24 g, quant). LC-MS Method 1  $t_R = 1.20$  min,  $m/z = 472, 470, 350, 348$ .

#### Step 4

To a stirred solution of tert-butyl (S)-1-(4-bromophenyl)ethyl(4-hydroxy-4-phenylbutyl)carbamate (3.24 g, 7.1 mmol) in  $\text{CH}_2\text{Cl}_2$  (20 mL) at rt was added 15% Dess-Martin periodinane solution in  $\text{CH}_2\text{Cl}_2$  (23 mL, 10.8 mmol). The mixture was stirred overnight at rt. Satd aq  $\text{NaHCO}_3$  (50 mL) was added and the mixture was stirred for 10 min. Solid  $\text{Na}_2\text{S}_2\text{O}_3$  (5 g) was added and stirring was continued for 1 h. The mixture was extracted with  $\text{CH}_2\text{Cl}_2$  (2 x 100 mL) and the combined organic layer was washed with brine (35 mL) and dried over  $\text{Na}_2\text{SO}_4$ . Removal of the solvent left an amber oil (3.19 g) which was purified by chromatography on a 40-g silica cartridge

eluted with a 0-100% EtOAc in hexanes gradient to afford (S)-tert-butyl 1-(4-bromophenyl)ethyl(4-oxo-4-phenylbutyl)carbamate (2.32 g, 72%) as a yellow oil. LC-MS Method 1  $t_R$  = 2.40 min,  $m/z$  = 470, 468, 348, 346.

#### Step 5

A stirred mixture of (S)-tert-butyl 1-(4-bromophenyl)ethyl(4-oxo-4-phenylbutyl)carbamate (2.16 g, 4.84 mmol), t-BuSONH<sub>2</sub> (586 mg, 4.84 mmol), Ti(OEt)<sub>4</sub> (2.21 g, 9.67 mmol) and dry THF (30 mL) was heated at reflux for 24 h. The mixture was concentrated and the residue was diluted with EtOAc (90 mL) and brine (30 mL). The mixture was filtered through Celite and the organic layer of the filtrate was separated, washed with brine (20 mL) and dried over Na<sub>2</sub>SO<sub>4</sub>. Removal of the solvent afforded a yellow oil (2.39 g) which was purified by chromatography on silica gel to afford tert-butyl (S)-1-(4-bromophenyl)ethyl(4-(tert-butylsulfinylimino)-4-phenylbutyl)carbamate (1.35 g, 51%) as a yellow solid. LC-MS (3 min)  $t_R$  = 2.45 min,  $m/z$  = 551, 549.

#### Step 6

A stirred solution of tert-butyl (S)-1-(4-bromophenyl)ethyl(4-(tert-butylsulfinylimino)-4-phenylbutyl)carbamate (926 mg, 1.69 mmol) in dry THF (25 mL) was cooled in a dry ice/i-PrOH bath and 1 M allylmagnesium bromide (4.2 mL, 4.2 mmol) was added dropwise over 2 min. The mixture was stirred in the cooling bath for 3 h, diluted with satd aq NH<sub>4</sub>Cl (50 mL) and extracted with EtOAc (2 x 50 mL). The combined EtOAc extracts were washed with brine (15 mL), dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to afford tert-butyl (S)-1-(4-bromophenyl)ethyl(4-(1,1-dimethylethylsulfinamido)-4-phenylhept-6-enyl)carbamate (990 mg, 99%) as an oil. LC-MS (3 min)  $t_R$  = 2.47 min,  $m/z$  = 593, 591.

#### Step 7

To an ice-cold, stirred solution of tert-butyl (S)-1-(4-bromophenyl)ethyl(4-(1,1-dimethylethylsulfinamido)-4-phenylhept-6-enyl)carbamate (990 mg, 1.67 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (5 mL) was added 4 M HCl in dioxane (10 mL, 40 mmol). The mixture was stirred overnight at rt and concentrated to afford an off-white solid (940 mg). The solid was redissolved in 5% aq HCl (25 mL), washed with ether (75 mL) and basified with NaOH. The basic aqueous solution was extracted with CH<sub>2</sub>Cl<sub>2</sub> (2 x 60 mL). The combined CH<sub>2</sub>Cl<sub>2</sub> extracts were dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to afford N<sup>1</sup>-



((S)-1-(4-bromophenyl)ethyl)-4-phenylhept-6-ene-1,4-diamine (522 mg, 80%) as an oil. LC-MS (3 min)  $t_R$  = 0.97 min,  $m/z$  = 389, 387.

#### Step 8

To a stirred, ice-cold solution of N<sup>1</sup>-((S)-1-(4-bromophenyl)ethyl)-4-phenylhept-6-ene-1,4-diamine (284 mg, 0.73 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (50 mL) was added *i*-Pr<sub>2</sub>NEt (0.39 mL, 2.2 mmol), followed by a solution of triphosgene (72 mg, 0.24 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (4 mL). The mixture was allowed to warm to rt and stirred overnight. The mixture was concentrated and the residue was taken up in ether (90 mL) and 5% aq HCl (20 mL). The organic layer was separated, washed with brine, dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to leave a 1:1 mixture of the diastereomers of 4-allyl-1-((S)-1-(4-bromophenyl)ethyl)-4-phenyl-1,3-diazepan-2-one (292 mg). This material was combined with product from another similar reaction (total weight 554 mg). Chromatography on a 40-g silica gel cartridge eluted with a 0-60% EtOAc in hexanes gradient afforded the two diastereomers of 4-allyl-1-((S)-1-(4-bromophenyl)ethyl)-4-phenyl-1,3-diazepan-2-one.

Isomer 1 (160 mg, 29%): LC-MS (3 min)  $t_R$  = 2.20 min,  $m/z$  = 415, 413. <sup>1</sup>H NMR (CDCl<sub>3</sub>) [*selected resonances*] 1.22 (d, 3H), 5.51 (q, 1H).

Isomer 2 (154 mg, 28%): LC-MS (3 min)  $t_R$  = 2.20 min,  $m/z$  = 415, 413. <sup>1</sup>H NMR (CDCl<sub>3</sub>) 1.15 (m, 1H), 1.39 (m, 1H), 1.43 (d, 3H), 1.84 (m, 1H), 2.40 (m, 2H), 2.45 (m, 1H), 2.78 (m, 2H), 4.99 (s, 1H), 4.18 (m, 2H), 5.26 (q, 1H), 5.43 (m, 1H), 6.62 (d, 2H), 7.18 (d, 2H), 7.28 (m, 1H), 7.39 (m, 4H).

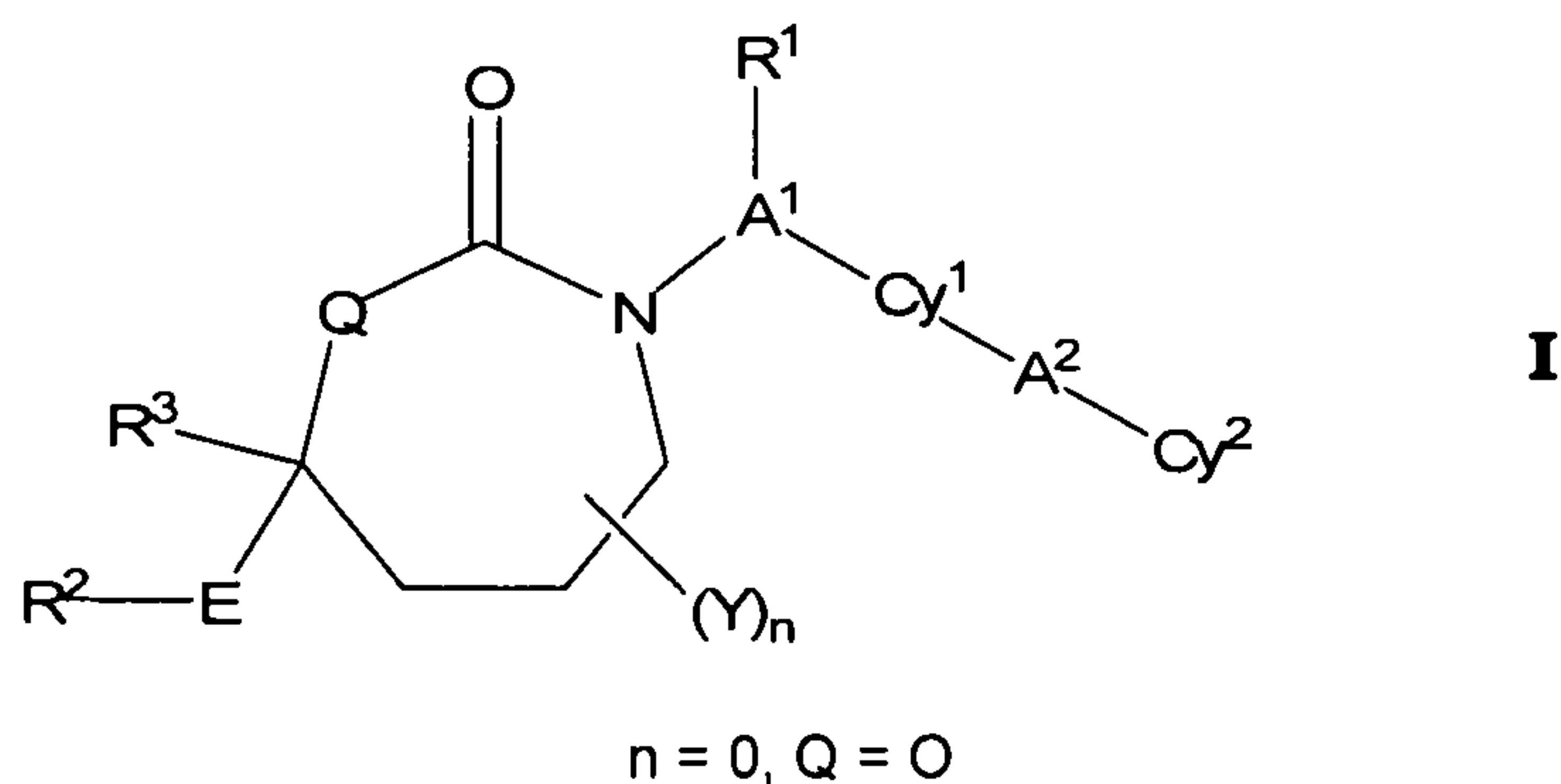
#### Step 9

A stirred solution of 4-allyl-1-((S)-1-(4-bromophenyl)ethyl)-4-phenyl-1,3-diazepan-2-one isomer 2 (70 mg, 0.17 mmol) in dry THF (2 mL) was cooled in an ice bath and 0.5 M disiamylborane (2 mL, 1.0 mmol) was added dropwise over 2 min. The ice bath was allowed to melt and the mixture was stirred overnight at rt. Water (5 mL) was added, followed by solid NaBO<sub>3</sub>·H<sub>2</sub>O (180 mg, 1.8 mmol). The mixture was stirred at rt for 2 h and concentrated. The aqueous residue was extracted with EtOAc (2 x 60 mL). The combined EtOAc extracts were dried over Na<sub>2</sub>SO<sub>4</sub> and concentrated to afford an oil (94 mg). Preparative HPLC afforded 1-((S)-1-(4-bromophenyl)ethyl)-4-(3-hydroxypropyl)-4-phenyl-1,3-diazepan-2-one (47 mg, 64%) as an oil. LC-MS (16 min)  $t_R$  = 8.55 min,  $m/z$  = 433, 431. <sup>1</sup>H NMR (CDCl<sub>3</sub>) 1.23 (m, 1H), 1.44 (d, 3H), 1.52 (m, 3H), 1.81 (m, 2H), 1.95 (m, 1H), 2.39 (m, 1H), 2.80 (m,

2H), 3.57 (m, 2H), 4.38 (1H), 5.30 (q, 1H), 5.90 (1H), 6.68 (d, 2H), 7.23 (d, 2H), 7.33 (m, 1H), 7.40 (4H).

### PROPHETIC COMPOUND TABLES

TABLE 1



Prophetic Example No.	A <sup>1</sup> -R <sup>1</sup>	Cy <sup>1</sup>	A <sup>2</sup>	Cy <sup>2</sup>	E	R <sup>2</sup>	R <sup>3</sup>
1a	bond	3-Me-Ph	bond	H	bond	Ph	Me
2a	bond	3-Br-Ph	bond	H	bond	Ph	Me
3a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	Ph	bond	Ph	Me
4a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-Ph	bond	Ph	Me
5a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-NC-Ph	bond	Ph	Me
6a	CH	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-MeO-Ph	bond	Ph	Me
7a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,6-diCl-Ph	bond	Ph	Me
8a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	Me
9a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3-Cl-Ph	bond	Ph	Me
10a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3-F-Ph	bond	Ph	Me
11a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,5-diF-Ph	bond	Ph	Me
12a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3,5-diF-Ph	bond	Ph	Me
13a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	Me
14a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-F-Ph	bond	Ph	Me
15a	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>

16a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)CH <sub>2</sub>
17a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
18a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	allyl
19a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
20a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
21a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
22a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
23a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,6-diCl-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
24a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	H <sub>2</sub> NC(=O)CH <sub>2</sub>
25a	CH	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
26a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
27a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	Ph	bond	3-Cl-Ph	Me
28a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-pyridyl	Me
29a	CHMe	Ph	bond	H	bond	Ph	Me
30a	CHMe	3-MeO-Ph	bond	H	bond	Ph	Me
31a	CHMe	4-MeO-Ph	bond	H	bond	Ph	Me
32a	CHMe	Ph	bond	H	bond	2-Me-Ph	Me
33a	CHMe	Ph	bond	H	bond	4-Me-Ph	Me
34a	CHMe	Ph	bond	H	bond	4-MeS-Ph	Me
35a	CHMe	Ph	bond	H	bond	4-F-Ph	allyl
36a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
37a	CHMe	Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
38a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
39a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2-Cl-4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
40a	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
41a	bond	2,6-pyridyl	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
42a	bond	2,6-pyridyl	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
43a	bond	2,6-pyridyl	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
44a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
45a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
46a	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>

47a	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
48a	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
49a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	allyl
50a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	allyl
51a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
52a	CHMe	Ph	bond	H	bond	4-F-Ph	vinyl
53a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
54a	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
55a	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
56a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
57a	CHMe	c-hex	bond	H	bond	4-F-Ph	allyl
58a	CHMe	c-hex	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
59a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	c-Pr	bond	4-F-Ph	allyl
60a	CHMe	4-MeO <sub>2</sub> C-Ph	bond	H	bond	4-F-Ph	allyl
61a	CHMe	1,3-C <sub>6</sub> H <sub>4</sub>	bond	c-Pr	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
62a	CHMe	4-MeO <sub>2</sub> C-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
63a	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	allyl
64a	bond	2,6-(5-Cl)-pyridyl	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
65a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub>
66a	bond	2,6-(5-Cl)-pyridyl	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
67a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
68a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCH(OH)CH <sub>2</sub>
69a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeC(=O)CH <sub>2</sub>
70a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub>
71a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeOCH <sub>2</sub> CH <sub>2</sub>
72a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)NHCH <sub>2</sub> CH <sub>2</sub>
73a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
74a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
75a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
76a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)CH <sub>2</sub> CH <sub>2</sub>
77a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCONHCH <sub>2</sub> CH <sub>2</sub>

78a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)OCH <sub>2</sub> CH <sub>2</sub>
79a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
80a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NSO <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>
81a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	(HO) <sub>2</sub> P(=O)OCH <sub>2</sub> CH <sub>2</sub>
82a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> C(=O)NHCH <sub>2</sub> CH <sub>2</sub>
83a	CHMe	4-HOCH <sub>2</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
84a	CHMe	4-HOC(Me) <sub>2</sub> -Ph	bond	H	bond	4-F-Ph	allyl
85a	CHMe	4-Br-Ph	bond	H	bond	2-thienyl	allyl
86a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
87a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	allyl
88a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
89a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
90a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	allyl
91a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
92a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	MeCH(OH)CH <sub>2</sub>
93a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
94a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
95a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	MeCH(OH)CH <sub>2</sub>
96a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
97a	CHMe	Ph	bond	2,4-diF-Ph	bond	4-F-Ph	NCCH <sub>2</sub> CH <sub>2</sub>
98a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
99a	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
100a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOC(=O)CH <sub>2</sub> CH <sub>2</sub>
101a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
102a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> C(=O)NHCH <sub>2</sub> CH <sub>2</sub>
103a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeOC(=O)NHCH <sub>2</sub> CH <sub>2</sub>
104a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(4-morpholino)ethyl
105a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	EtNHCONHCH <sub>2</sub> CH <sub>2</sub>
106a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=NCN)NHCH <sub>2</sub> CH <sub>2</sub>
107a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
108a	CH <sub>2</sub> Me	4-Cl-Ph	bond	H	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>

109a	CH <sub>2</sub> Me	4-Me-Ph	bond	H	bond	4-F-Ph	allyl
110a	CH <sub>2</sub> Me	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
111a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	allyl
112a	CHMe	4-HOCH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
113a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
114a	CHMe	4-Cl-Ph	bond	H	bond	4-F-Ph	allyl
115a	CHMe	c-hex	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
116a	CHMe	4-HOCH <sub>2</sub> CH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
117a	CHMe	4-MeOCH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
118a	CHMe	4-Br-Ph	bond	H	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
119a	CHMe	4-Cl-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
120a	CH <sub>2</sub> Me	4-Cl-Ph	bond	H	bond	4-F-Ph	MeCH(OH)CH <sub>2</sub>
121a	CHMe	4-Br-Ph	bond	H	bond	Ph	allyl
122a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
123a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
124a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub>
125a	bond	1-( <i>t</i> -BuOC(=O))pyrrolidin-3-yl	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
126a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
127a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
128a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
129a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
130a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
131a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
132a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-morpholinyl	bond	4-F-Ph	allyl
133a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub>
134a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	NCCH <sub>2</sub> CH <sub>2</sub>
135a	CHEt	4-Br-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
136a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
137a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	1-oxo-3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
138a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
139a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	MeCH(OH)CH <sub>2</sub>

140a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
141a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	Pr
142a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
143a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
144a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-Me-1,3,4-thiadiazol-2-yl	bond	4-F-Ph	allyl
145a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
146a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub>
147a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
148a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-MeO-5-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
149a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
150a	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
151a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub>
152a	CHEt	4-Br-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
153a	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
154a	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
155a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	NCCH <sub>2</sub>
156a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diMe-5-thiazolyl	bond	4-F-Ph	allyl
157a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
158a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
159a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	3-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
160a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
161a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-MeCO-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
162a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
163a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-(H <sub>2</sub> NCHMe)-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
164a	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
165a	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
166a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-(HOCHMe)-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
167a	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
168a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
169a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHCH <sub>2</sub> CH <sub>2</sub>
170a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-(CF <sub>3</sub> )-1-pyrazolyl	bond	4-F-Ph	allyl

171a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
172a	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
173a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSCH <sub>2</sub> CH <sub>2</sub>
174a	CHMe	Ph	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH <sub>2</sub>
175a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)OCH <sub>2</sub> CH <sub>2</sub>
176a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>
177a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(1-imidazolyl)ethyl
178a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCONMeCH <sub>2</sub> CH <sub>2</sub>
179a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
180a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
181a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
182a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(1-aminoimidazol-1-yl)ethyl
183a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
184a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH(OH)CH <sub>2</sub>
185a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH(OH)CH <sub>2</sub>
186a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NMeCH <sub>2</sub> CH(OH)CH <sub>2</sub>
187a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	6-CF <sub>3</sub> -3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
188a	CHMe	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
189a	CHMe	3-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
190a	CHMe	2-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
191a	CHMe	4-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
192a	CHMe	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
193a	CHMe	4-Cl-Ph	bond	H	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
194a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
195a	CHMe	4-F <sub>2</sub> HCO-Ph	bond	H	bond	4-F-Ph	allyl
196a	CHMe	Ph	bond	3-pyrazolyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
197a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	Ph	allyl
198a	CHMe	3-CF <sub>3</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
199a	CHMe	4-CF <sub>3</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
200a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
201a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>



202a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
203a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
204a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
205a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
206a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	NCC(Me) <sub>2</sub> CH <sub>2</sub>
207a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	6-MeO-3-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
208a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-MeO-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
209a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-Cl-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
210a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
211a	CHMe	4-F <sub>2</sub> HCO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
212a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	(HO) <sub>2</sub> P(=O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
213a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-Me-4-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
214a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
215a	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	1-Me-6-oxo-3-(1,6-dihydropyridyl)	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
216a	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
217a	CHMe	4-MeO-Ph	bond	H	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
218a	CHMe	4-F-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
219a	CHMe	c-hex	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
220a	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
221a	CHMe	c-hex	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>

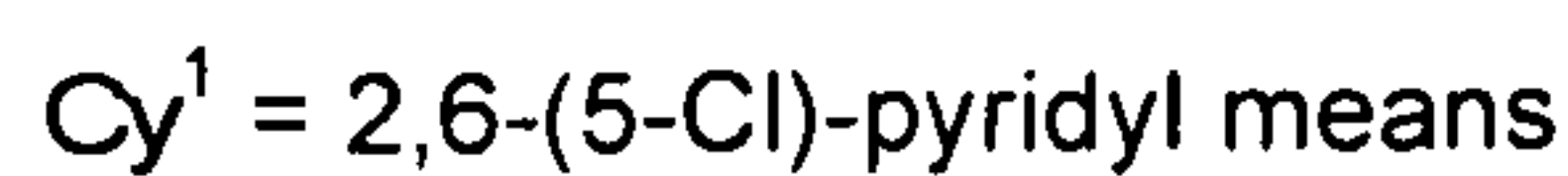
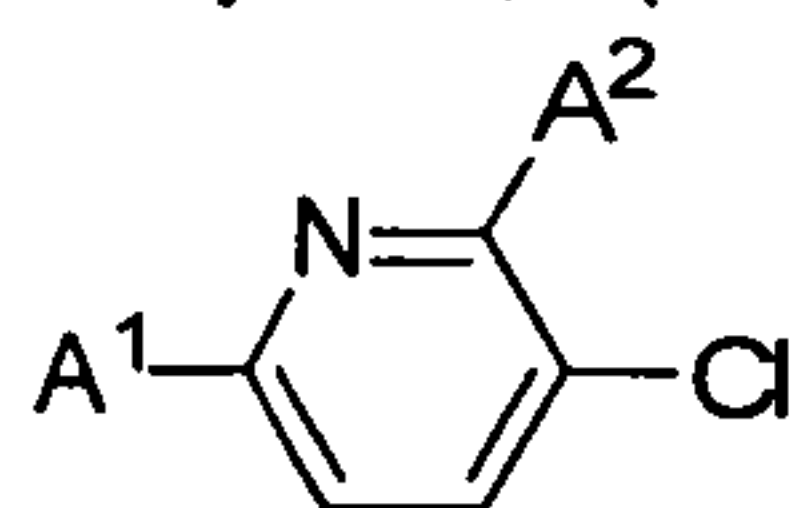
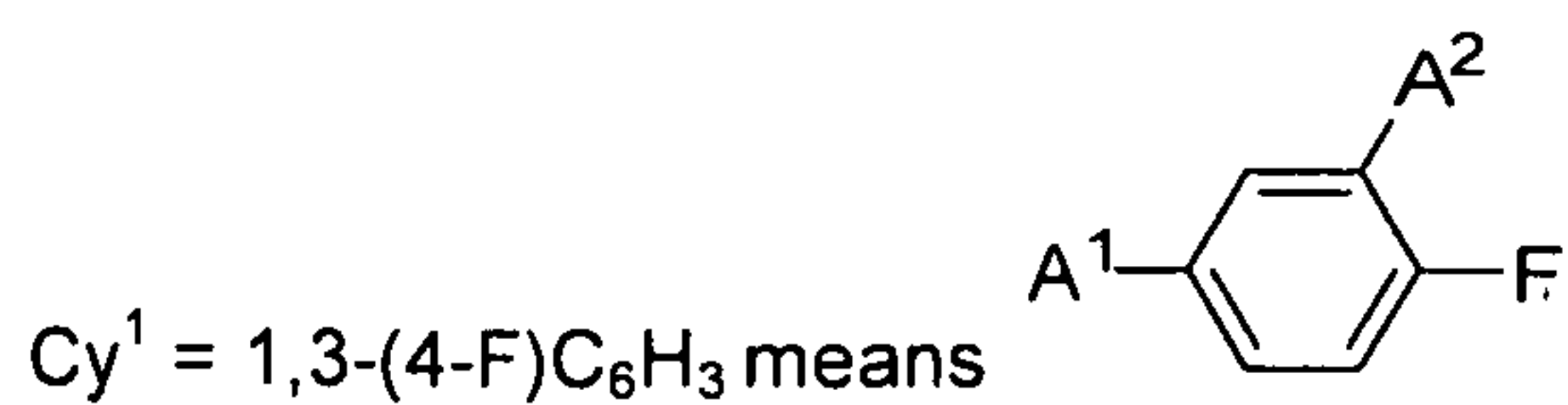
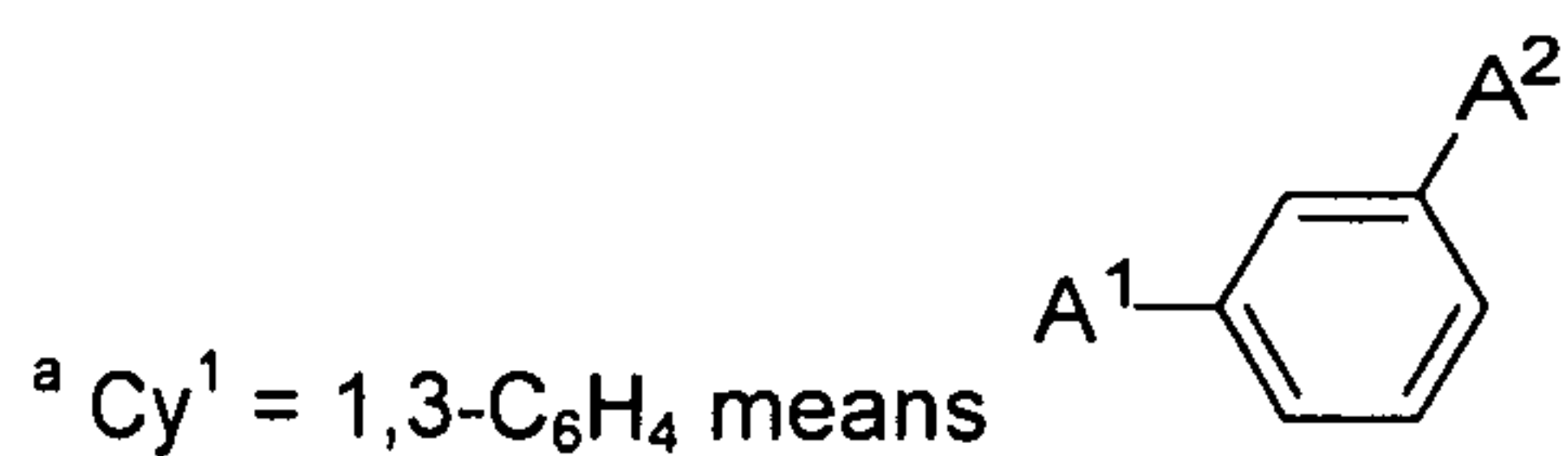
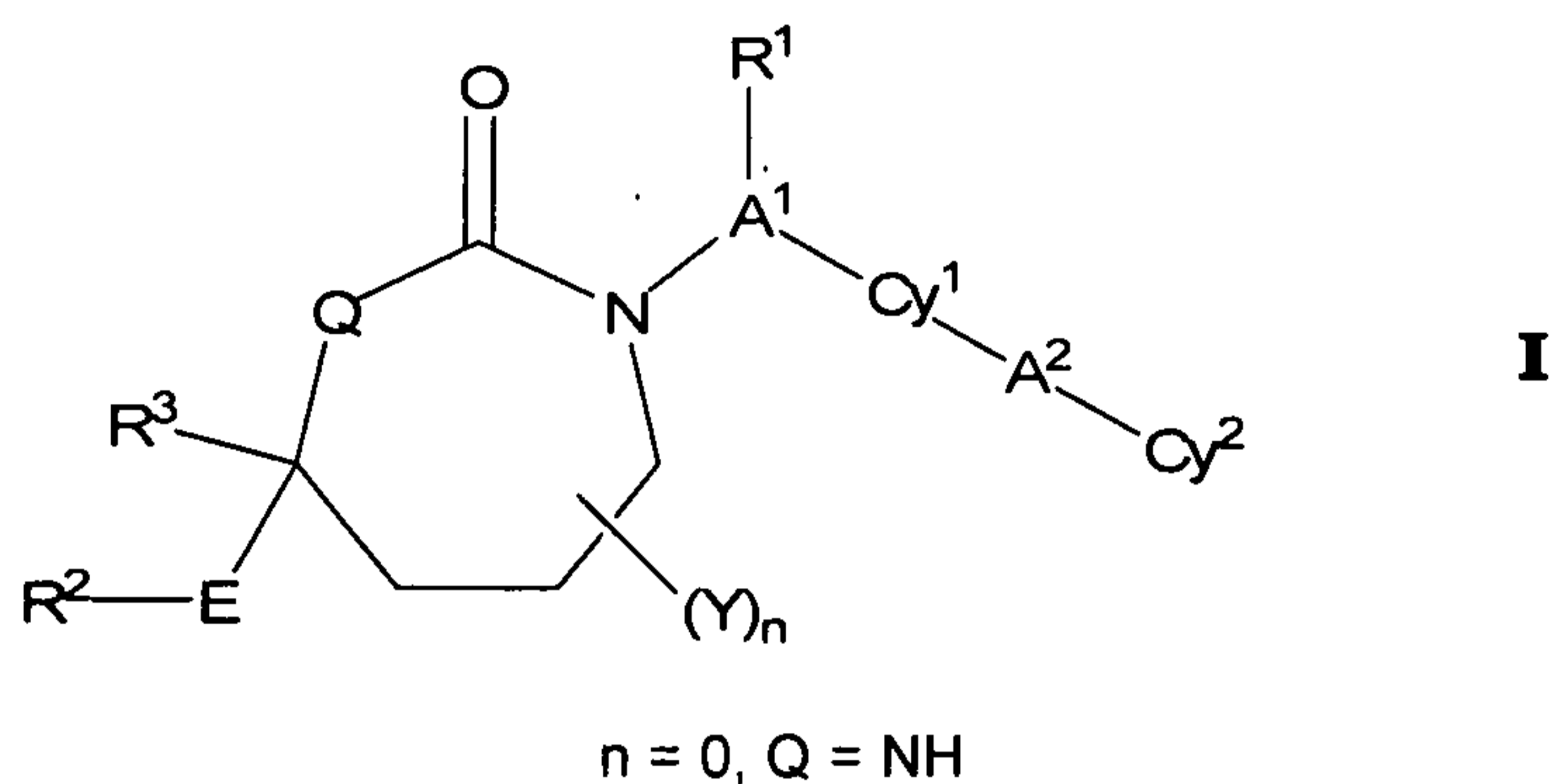


TABLE 2



Prophetic Example No.	A <sup>1</sup> -R <sup>1</sup>	Cy <sup>1</sup>	A <sup>2</sup>	Cy <sup>2</sup>	E	R <sup>2</sup>	R <sup>3</sup>
1b	bond	3-Me-Ph	bond	H	bond	Ph	Me
2b	bond	3-Br-Ph	bond	H	bond	Ph	Me
3b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	Ph	bond	Ph	Me
4b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-Ph	bond	Ph	Me
5b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-NC-Ph;	bond	Ph	Me
6b	CH	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-MeO-Ph	bond	Ph	Me
7b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,6-diCl-Ph	bond	Ph	Me
8b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	Me
9b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3-Cl-Ph	bond	Ph	Me
10b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3-F-Ph	bond	Ph	Me
11b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,5-diF-Ph	bond	Ph	Me
12b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	3,5-diF-Ph	bond	Ph	Me
13b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	Me
14b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-F-Ph	bond	Ph	Me
15b	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
16b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)CH <sub>2</sub>
17b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
18b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	allyl
19b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>

20b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
21b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
22b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
23b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,6-diCl-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
24b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	H <sub>2</sub> NC(=O)CH <sub>2</sub>
25b	CH	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
26b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
27b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	Ph	bond	3-Cl-Ph	Me
28b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-pyridyl	Me
29b	CHMe	Ph	bond	H	bond	Ph	Me
30b	CHMe	3-MeO-Ph	bond	H	bond	Ph	Me
31b	CHMe	4-MeO-Ph	bond	H	bond	Ph	Me
32b	CHMe	Ph	bond	H	bond	2-Me-Ph	Me
33b	CHMe	Ph	bond	H	bond	4-Me-Ph	Me
34b	CHMe	Ph	bond	H	bond	4-MeS-Ph	Me
35b	CHMe	Ph	bond	H	bond	4-F-Ph	allyl
36b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
37b	CHMe	Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
38b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
39b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2-Cl-4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
40b	bond	1,3-C <sub>6</sub> H <sub>4</sub>	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
41b	bond	2,6-pyridyl	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
42b	bond	2,6-pyridyl	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
43b	bond	2,6-pyridyl	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
44b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
45b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
46b	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
47b	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
48b	bond	2,6-pyridyl	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
49b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	allyl
50b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	allyl

51b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
52b	CHMe	Ph	bond	H	bond	4-F-Ph	vinyl
53b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
54b	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
55b	bond	2,6-pyridyl	bond	2-Cl-4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
56b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
57b	CHMe	c-hex	bond	H	bond	4-F-Ph	allyl
58b	CHMe	c-hex	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
59b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	c-Pr	bond	4-F-Ph	allyl
60b	CHMe	4-MeO <sub>2</sub> C-Ph	bond	H	bond	4-F-Ph	allyl
61b	CHMe	1,3-C <sub>6</sub> H <sub>4</sub>	bond	c-Pr	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
62b	CHMe	4-MeO <sub>2</sub> C-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
63b	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	allyl
64b	bond	2,6-(5-Cl)-pyridyl	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
65b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub>
66b	bond	2,6-(5-Cl)-pyridyl	bond	2,4-diF-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
67b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
68b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCH(OH)CH <sub>2</sub>
69b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeC(=O)CH <sub>2</sub>
70b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub>
71b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeOCH <sub>2</sub> CH <sub>2</sub>
72b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)NHCH <sub>2</sub> CH <sub>2</sub>
73b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
74b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
75b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
76b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)CH <sub>2</sub> CH <sub>2</sub>
77b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCONHCH <sub>2</sub> CH <sub>2</sub>
78b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)OCH <sub>2</sub> CH <sub>2</sub>
79b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
80b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NSO <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>
81b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	(HO) <sub>2</sub> P(=O)OCH <sub>2</sub> CH <sub>2</sub>

82b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> C(=O)NHCH <sub>2</sub> CH <sub>2</sub>
83b	CHMe	4-HOCH <sub>2</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
84b	CHMe	4-HOC(Me) <sub>2</sub> -Ph	bond	H	bond	4-F-Ph	allyl
85b	CHMe	4-Br-Ph	bond	H	bond	2-thienyl	allyl
86b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
87b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	allyl
88b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
89b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
90b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	allyl
91b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
92b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	MeCH(OH)CH <sub>2</sub>
93b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
94b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
95b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	MeCH(OH)CH <sub>2</sub>
96b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
97b	CHMe	Ph	bond	2,4-diF-Ph	bond	4-F-Ph	NCCH <sub>2</sub> CH <sub>2</sub>
98b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
99b	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
100b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOC(=O)CH <sub>2</sub> CH <sub>2</sub>
101b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
102b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> C(=O)NHCH <sub>2</sub> CH <sub>2</sub>
103b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeOC(=O)NHCH <sub>2</sub> CH <sub>2</sub>
104b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(4-morpholino)ethyl
105b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	EtNHCONHCH <sub>2</sub> CH <sub>2</sub>
106b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=NCN)NHCH <sub>2</sub> CH <sub>2</sub>
107b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
108b	CH <sub>2</sub> Me	4-Cl-Ph	bond	H	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
109b	CH <sub>2</sub> Me	4-Me-Ph	bond	H	bond	4-F-Ph	allyl
110b	CH <sub>2</sub> Me	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
111b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	allyl
112b	CHMe	4-HOCH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>

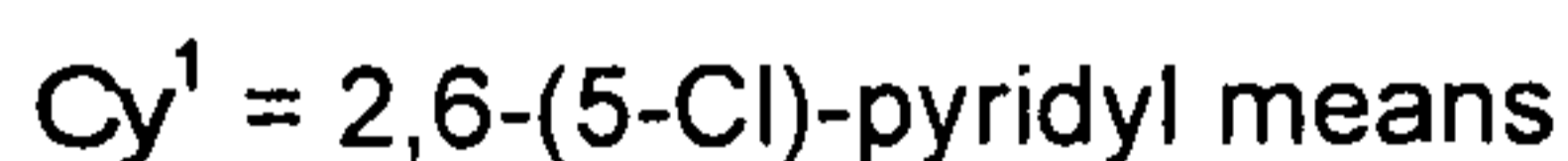
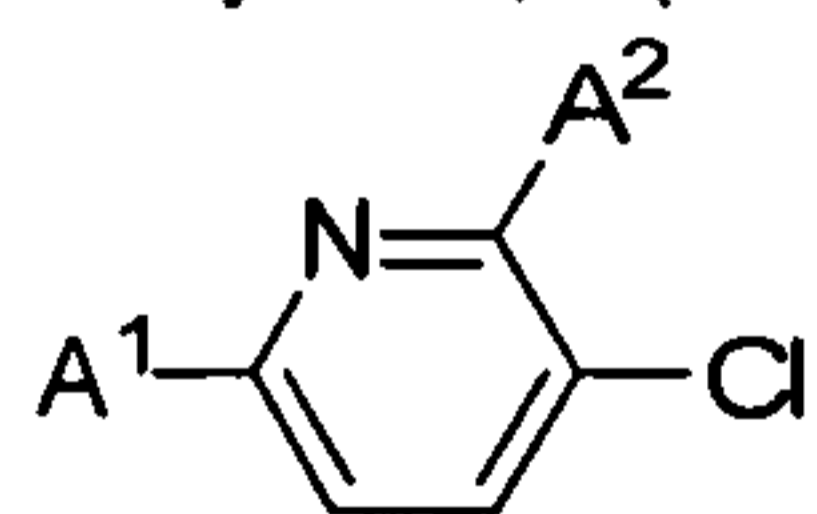
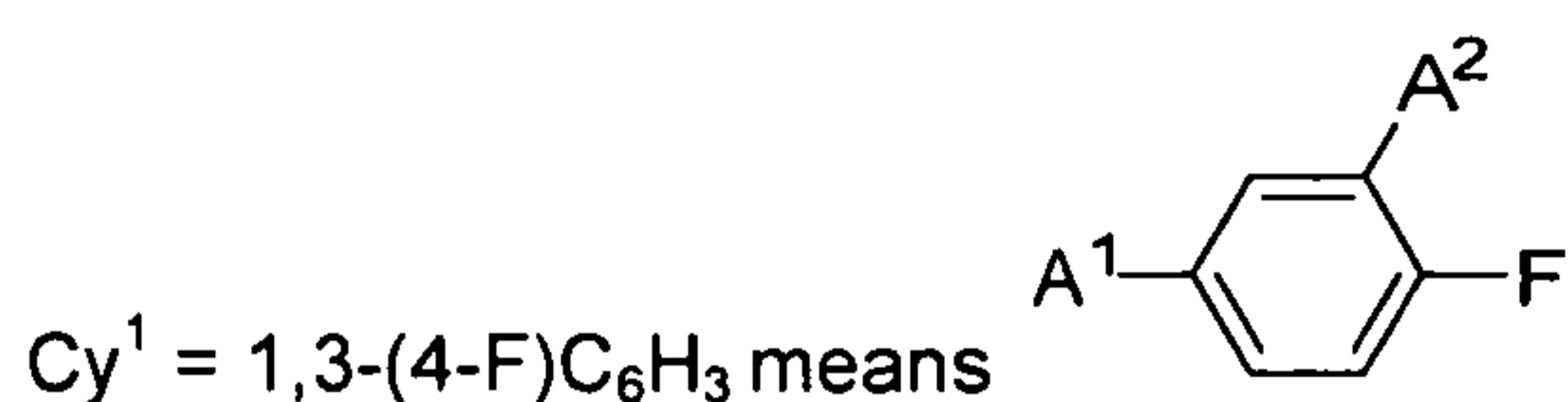
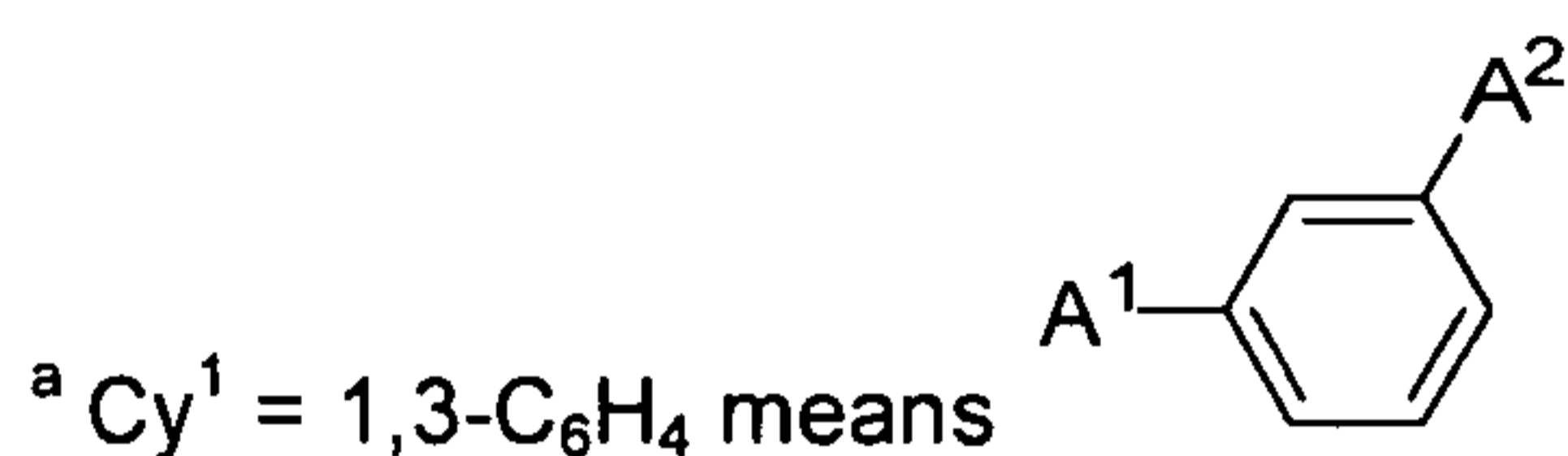
113b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
114b	CHMe	4-Cl-Ph	bond	H	bond	4-F-Ph	allyl
115b	CHMe	c-hex	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
116b	CHMe	4-HOCH <sub>2</sub> CH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
117b	CHMe	4-MeOCH <sub>2</sub> -Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
118b	CHMe	4-Br-Ph	bond	H	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
119b	CHMe	4-Cl-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
120b	CH <sub>2</sub> Me	4-Cl-Ph	bond	H	bond	4-F-Ph	MeCH(OH)CH <sub>2</sub>
121b	CHMe	4-Br-Ph	bond	H	bond	Ph	allyl
122b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub>
123b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
124b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub>
125b	bond	1-( <i>t</i> -BuOC(=O))pyrrolidin-3-yl	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
126b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
127b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
128b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
129b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
130b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
131b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
132b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-morpholinyl	bond	4-F-Ph	allyl
133b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub>
134b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	NCCH <sub>2</sub> CH <sub>2</sub>
135b	CH <sub>2</sub> Et	4-Br-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
136b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
137b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	1-oxo-3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
138b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	i-Pr	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
139b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	MeCH(OH)CH <sub>2</sub>
140b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
141b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	Pr
142b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
143b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSO <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>

144b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-Me-1,3,4-thiadiazol-2-yl	bond	4-F-Ph	allyl
145b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
146b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	2-thienyl	HOCH <sub>2</sub> CH <sub>2</sub>
147b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
148b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-MeO-5-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
149b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
150b	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
151b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub>
152b	CHEt	4-Br-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
153b	CHMe	4-Br-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
154b	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
155b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	NCCH <sub>2</sub>
156b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diMe-5-thiazolyl	bond	4-F-Ph	allyl
157b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
158b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	2-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
159b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	3-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
160b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
161b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-MeCO-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
162b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
163b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-(H <sub>2</sub> NCHMe)-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
164b	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
165b	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
166b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-(HOCHMe)-2-thienyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
167b	CHEt	4-Br-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
168b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
169b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHCH <sub>2</sub> CH <sub>2</sub>
170b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-(CF <sub>3</sub> )-1-pyrazolyl	bond	4-F-Ph	allyl
171b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	Ph	HOC(Me) <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
172b	CHEt	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
173b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeSCH <sub>2</sub> CH <sub>2</sub>
174b	CHMe	Ph	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH <sub>2</sub>

175b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)OCH <sub>2</sub> CH <sub>2</sub>
176b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> OCH <sub>2</sub> CH <sub>2</sub>
177b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(1-imidazolyl)ethyl
178b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeCONMeCH <sub>2</sub> CH <sub>2</sub>
179b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
180b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
181b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
182b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	2-(1-aminoimidazol-1-yl)ethyl
183b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	MeNHC(=O)NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
184b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	H <sub>2</sub> NC(=O)NHCH <sub>2</sub> CH(OH)CH <sub>2</sub>
185b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH(OH)CH <sub>2</sub>
186b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	4-F-Ph	MeSO <sub>2</sub> NMeCH <sub>2</sub> CH(OH)CH <sub>2</sub>
187b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	6-CF <sub>3</sub> -3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
188b	CHMe	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
189b	CHMe	3-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
190b	CHMe	2-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
191b	CHMe	4-F-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
192b	CHMe	4-MeO-Ph	bond	H	bond	Ph	HOCH <sub>2</sub> CH(OH)CH <sub>2</sub>
193b	CHMe	4-Cl-Ph	bond	H	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
194b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
195b	CHMe	4-F <sub>2</sub> HCO-Ph	bond	H	bond	4-F-Ph	allyl
196b	CHMe	Ph	bond	3-pyrazolyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
197b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	Ph	allyl
198b	CHMe	3-CF <sub>3</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
199b	CHMe	4-CF <sub>3</sub> -Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
200b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
201b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
202b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
203b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
204b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
205b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-F-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>



206b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	NCC(Me) <sub>2</sub> CH <sub>2</sub>
207b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	6-MeO-3-pyridyl	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
208b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-MeO-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
209b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	5-Cl-3-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
210b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	3-pyridyl	bond	Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub>
211b	CHMe	4-F <sub>2</sub> HCO-Ph	bond	H	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
212b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	4-F-Ph	bond	Ph	(HO) <sub>2</sub> P(=O)OCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
213b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	2-Me-4-pyridyl	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
214b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	H	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
215b	CHMe	1,4-C <sub>6</sub> H <sub>4</sub>	bond	1-Me-6-oxo-3-(1,6-dihydropyridyl)	bond	Ph	HOCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
216b	CHMe	4-MeO-Ph	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>
217b	CHMe	4-MeO-Ph	bond	H	bond	Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
218b	CHMe	4-F-Ph	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
219b	CHMe	c-hex	bond	H	bond	4-F-Ph	H <sub>2</sub> NCOCH <sub>2</sub> CH <sub>2</sub>
220b	bond	1,3-(4-F)C <sub>6</sub> H <sub>3</sub>	bond	2,4-diF-Ph	bond	4-F-Ph	HOCH <sub>2</sub> CH <sub>2</sub>
221b	CHMe	c-hex	bond	H	bond	4-F-Ph	MeSO <sub>2</sub> NHCH <sub>2</sub> CH <sub>2</sub> CH <sub>2</sub>



The compounds of the invention are useful for ameliorating or treating disorders or diseases in which decreasing the level of cortisol is effective in treating a disease state. Thus, the compounds of the invention can be used in the treatment or prevention of diabetes mellitus, obesity, symptoms of metabolic syndrome, glucose intolerance, hyperglycemia, hypertension, hyperlipidemia, insulin resistance,

cardiovascular disease, dyslipidemia, atherosclerosis, lipodystrophy, osteoporosis, glaucoma, Cushing's syndrome, Addison's Disease, visceral fat obesity associated with glucocorticoid therapy, depression, anxiety, Alzheimer's disease, dementia, cognitive decline (including age-related cognitive decline), polycystic ovarian syndrome, infertility and hypergonadism. In addition, the compounds modulate the function of B and T cells of the immune system and can therefore be used to treat diseases such as tuberculosis, leprosy and psoriasis. They can also be used to promote wound healing, particularly in diabetic patients.

The disclosed compounds can be used alone (i.e. as a monotherapy) or in combination with another therapeutic agent effective for treating any of the above indications. The pharmaceutical compositions can comprise the disclosed compounds alone as the the only pharmaceutically active agent or can comprise one or more additional pharmaceutically active agents.

A pharmaceutical composition of the invention may, alternatively or in addition to a compound of Formula (I), (Ia), (Ib), (Ic), (Id), (Ie), (If), or (Ig) comprise a pharmaceutically acceptable salt of a compound of Formula (I), (Ia), (Ib), (Ic), (Id), (Ie), (If), (Ig) or a prodrug or pharmaceutically active metabolite of such a compound or salt and one or more pharmaceutically acceptable carriers therefore. Alternatively, a pharmaceutical composition of the invention may comprise a compound of Formula (I), (Ia), (Ib), (Ic), (Id), (Ie), (If), (Ig) or a pharmaceutical salt thereof as the only pharmaceutically active agent in the pharmaceutical composition.

A pharmaceutical composition of the invention may, alternatively or in addition to a compound of Formula I, comprise a pharmaceutically acceptable salt of a compound of Formula I or a prodrug or pharmaceutically active metabolite of such a compound or salt and one or more pharmaceutically acceptable carriers therefore.

The compositions of the invention are 11 $\beta$ -HSD1 inhibitors. Said compositions contain compounds having a mean inhibition constant (IC<sub>50</sub>) against 11 $\beta$ -HSD1 of below about 1,000 nM; preferably below about 100 nM; more preferably below about 50 nM; even more preferably below about 5 nM; and most preferably below about 1 nM.

The invention includes a therapeutic method for treating or ameliorating an 11 $\beta$ -HSD1 mediated disorder in a subject in need thereof comprising administering to a subject in need thereof an effective amount of a compound of Formula I, or an enantiomer, diastereomer, or pharmaceutically acceptable salt thereof of composition thereof. As used herein, "treating" or "treatment" includes both therapeutic and prophylactic treatment. Therapeutic treatment includes reducing the symptoms

associated with a disease or condition and/or increasing the longevity of a subject with the disease or condition. Prophylactic treatment includes delaying the onset of a disease or condition in a subject at risk of developing the disease or condition or reducing the likelihood that a subject will then develop the disease or condition in a subject that is at risk for developing the disease or condition.

An embodiment of the invention includes administering an 11 $\beta$ -HSD1 inhibiting compound of Formula I or composition thereof in a combination therapy with one or more additional agents for the treatment of diabetes, dyslipidemia, cardiovascular disease, hypertension, obesity, cancer or glaucoma. Agents for the treatment of diabetes include insulins, such as Humulin $\text{\textcircled{R}}$  (Eli Lilly), Lantus $\text{\textcircled{R}}$  (Sanofi Aventis), Novolin (Novo Nordisk), and Exubera $\text{\textcircled{R}}$  (Pfizer); PPAR gamma agonists, such as Avandia $\text{\textcircled{R}}$  (rosiglitazone maleate, GSK) and Actos $\text{\textcircled{R}}$  (pioglitazone hydrochloride, Takeda/Eli Lilly); sulfonylureas, such as Amaryl $\text{\textcircled{R}}$  (glimepiride, Sanofi Aventis), Diabeta $\text{\textcircled{R}}$  (glyburide, Sanofi Aventis), Micronase $\text{\textcircled{R}}$ /Glynase $\text{\textcircled{R}}$  (glyburide, Pfizer), and Glucotrol $\text{\textcircled{R}}$ /Glucotrol XL $\text{\textcircled{R}}$  and (glipizide, Pfizer); meglitinides, such as Prandin $\text{\textcircled{R}}$ /NovoNorm $\text{\textcircled{R}}$  (repaglinide, Novo Nordisk), Starlix $\text{\textcircled{R}}$  (nateglinide, Novartis), and Glufast $\text{\textcircled{R}}$  (mitiglinide, Takeda); biguanides, such as Glucophage $\text{\textcircled{R}}$ /Glucophage XR $\text{\textcircled{R}}$  (metformin HCl, Bristol Myers Squibb) and Glumetza (metformin HCl, Depomed); thiazolidinediones; amylin analogs, GLP-1 analogs; DPP-IV inhibitors; PTB-1B inhibitors; protein kinase inhibitors (including AMP-activated protein kinase inhibitors); glucagon antagonists, glycogen synthase kinase-3 beta inhibitors; glucose-6-phosphatase inhibitors; glycogen phosphorylase inhibitors; sodium glucose co-transporter inhibitors, and alpha-glucosidase inhibitors, such as Precose $\text{\textcircled{R}}$ /Glucobay $\text{\textcircled{R}}$ /Prandase $\text{\textcircled{R}}$ /Glucor $\text{\textcircled{R}}$  (acarbose, Bayer) and Glyset $\text{\textcircled{R}}$  (miglitol, Pfizer). Agents for the treatment of dyslipidemia and cardiovascular disease include statins, fibrates, and ezetimibe. Agents for the treatment of hypertension include alpha-blockers, beta-blockers, calcium channel blockers, diuretics, angiotensin converting enzyme (ACE) inhibitors, dual ACE and neutral endopeptidase (NEP) inhibitors, angiotensin-receptor blockers (ARBs), aldosterone synthase inhibitor, aldosterone-receptor antagonists, or endothelin receptor antagonist. Agents for the treatment of obesity include orlistat, phentermine, sibutramine and rimonabant.

An embodiment of the invention includes administering an 11 $\beta$ -HSD1 inhibiting compound of Formula I or composition thereof in a combination therapy with one or more other 11 $\beta$ -HSD1 inhibitors (whether such inhibitors are also compounds of Formula I or are compounds of a different class/genus), or with combination products, such as Avandamet $\text{\textcircled{R}}$  (metformin HCl and rosiglitazone

maleate, GSK); Avandaryl® (glimepiride and rosiglitazone maleate, GSK); Metaglip® (glipizide and metformin HCl, Bristol Myers Squibb); and Glucovance® (glyburide and metformin HCl, Bristol Myers Squibb).

The compounds of the present invention can be prepared and administered in a wide variety of oral and parenteral dosage forms. Thus, the compounds of the present invention can be administered by injection, that is, intravenously, intramuscularly, intracutaneously, subcutaneously, intraduodenally, or intraperitoneally. Additionally, the compounds of the present invention can be administered intranasally or transdermally. It will be obvious to those skilled in the art that the following dosage forms may comprise as the active ingredient, either compounds or a corresponding pharmaceutically acceptable salt of a compound of the present invention.

For preparing pharmaceutical compositions from the compounds of the present invention, pharmaceutically acceptable carriers can either be solid or liquid. Solid form preparations include powders, tablets, pills, capsules, cachets, suppositories, and dispersible granules. A solid carrier can be one or more substances which may also act as diluents, flavoring agents, solubilizers, lubricants, suspending agents, binders, preservatives, tablet disintegrating agents, or an encapsulating material. In powders, the carrier is a finely divided solid which is in a mixture with the finely divided active ingredient.

In tablets, the active ingredient is mixed with the carrier having the necessary binding properties in suitable proportions and compacted in the shape and size desired.

The powders and tablets preferably contain from about one to about seventy percent of the active ingredient. Suitable carriers are magnesium carbonate, magnesium stearate, talc, sugar, lactose, pectin, dextrin, starch, gelatin, tragacanth, methylcellulose, sodium carboxymethylcellulose, a low-melting wax, cocoa butter, and the like. Tablets, powders, cachets, lozenges, fast-melt strips, capsules and pills can be used as solid dosage forms containing the active ingredient suitable for oral administration.

For preparing suppositories, a low-melting wax, such as a mixture of fatty acid glycerides or cocoa butter, is first-melted and the active ingredient is dispersed homogeneously therein, as by stirring. The molten homogeneous mixture is then poured into convenient sized molds, allowed to cool, and thereby to solidify.

Liquid form preparations include solutions, suspensions, retention enemas, and emulsions, for example, water or water propylene glycol solutions. For

parenteral injection, liquid preparations can be formulated in solution in aqueous polyethylene glycol solution.

Aqueous solutions suitable for oral administration can be prepared by dissolving the active ingredient in water and adding suitable colorants, flavors, stabilizing, and thickening agents as desired. Aqueous suspensions for oral administration can be prepared by dispersing the finely divided active ingredient in water with viscous material, such as natural or synthetic gums, resins, methylcellulose, sodium carboxymethylcellulose, and other well-known suspending agents.

The pharmaceutical composition is preferably in unit dosage form. In such form, the composition is subdivided into unit doses containing appropriate quantities of the active ingredient. The unit dosage form can be a packaged preparation, the package containing discrete quantities of, for example, tablets, powders, and capsules in vials or ampules. Also, the unit dosage form can be a tablet, cachet, capsule, or lozenge itself, or it can be the appropriate amount of any of these in packaged form.

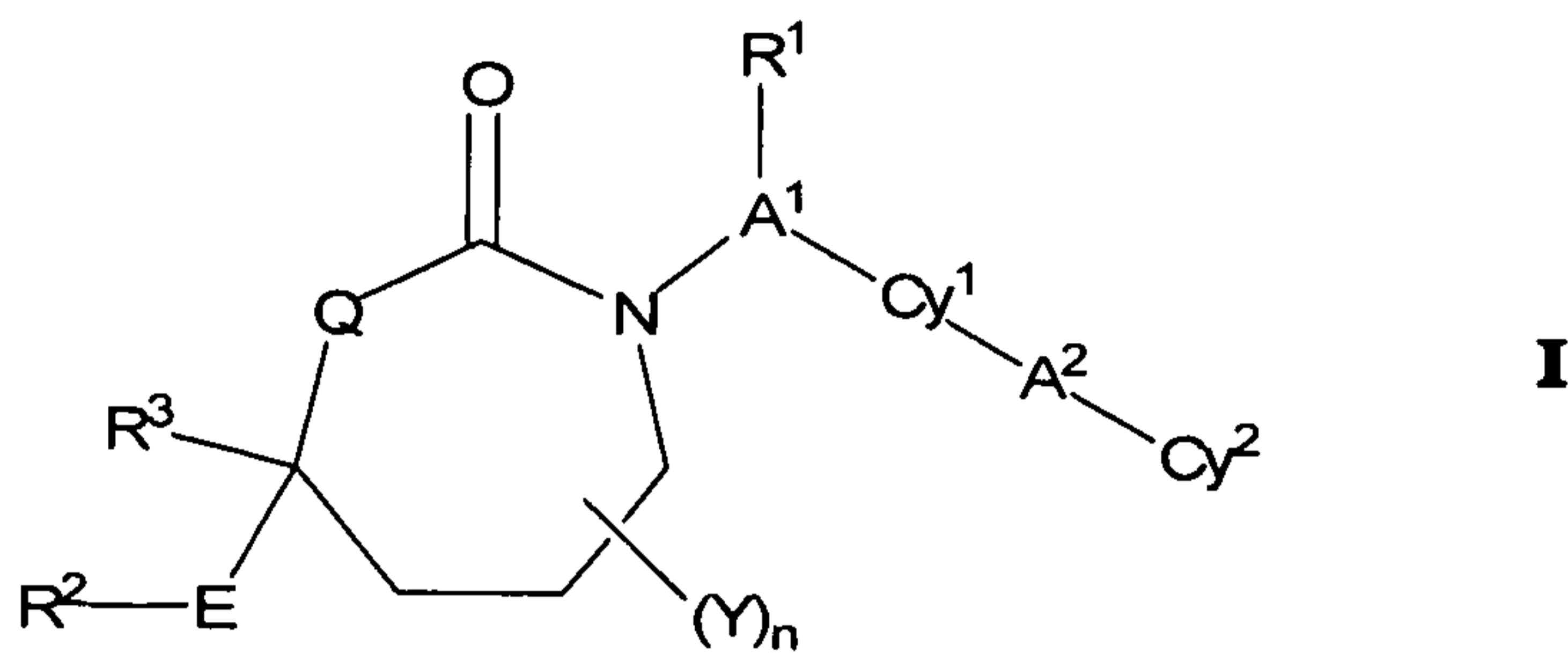
The quantity of active ingredient in a unit dose preparation may be varied or adjusted from about 0.1 mg to about 1000.0 mg, preferably from about 0.1 mg to about 100 mg. The dosages, however, may be varied depending upon the requirements of the patient, the severity of the condition being treated, and the compound being employed. Determination of the proper dosage for a particular situation is within the skill in the art. Also, the pharmaceutical composition may contain, if desired, other compatible therapeutic agents.

In therapeutic treatment or as a method-of-use as an inhibitor of 11 $\beta$ -HSD1 or an inhibitor in the production of cortisol in the cell, the active ingredient is preferably administered orally in a solid dosage form as disclosed above in an amount of about 0.1 mg to about 100 mg per daily dose where the dose is administered once or more than once daily.

All publications, patents and patent applications mentioned in this specification are herein incorporated by reference to the same extent as if each individual publication or patent application were specifically and individually designated as having been incorporated by reference. It is understood that the examples and embodiments described herein are for illustrative purposes only, and it will be appreciated that the invention is susceptible to modification, variation and change without departing from the proper scope or fair meaning of the appended claims.

What is claimed is:

1. A compound of Formula (I)



; wherein

$R^1$  is (a) absent or (b) is selected from  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl or  $(C_1-C_3)$ alkoxy $(C_1-C_3)$ alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo,  $R^4$ ,  $R^4O-$ ,  $(R^4)_2N-$ ,  $R^4O_2C-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4-$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4-$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4-$ ,  $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4-$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4-$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4-$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4-$ ,  $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4-$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4-$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4-$ , aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

$A^1$  is (a) a bond, or (b)  $(C_1-C_3)$ alkylene,  $CH_2CH_2O$ , wherein the oxygen is attached to  $Cy^1$ , or  $CH_2C(=O)$ , wherein the carbonyl carbon is attached to  $Cy^1$ ;

$Cy^1$  is aryl, heteroaryl, monocyclic cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl, hydroxy $(C_3-C_6)$ cycloalkyl,  $(C_4-C_7)$ cycloalkylalkyl,  $(C_2-C_6)$ alkenyl, halo $(C_2-C_6)$ alkenyl, hydroxy $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl $(C_2-C_4)$ alkynyl, halo $(C_1-C_6)$ alkyl, halo $(C_3-C_6)$ cycloalkyl, halo $(C_4-C_7)$ cycloalkylalkyl,  $(C_1-C_6)$ alkoxy,  $(C_3-C_6)$ cycloalkoxy,

(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

A<sup>2</sup> is (a) a bond, O, S or NR<sup>4</sup>; or (b) (C<sub>1</sub>-C<sub>3</sub>)alkylene or (C<sub>1</sub>-C<sub>2</sub>)alkyleneoxy, each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo;

Cy<sup>2</sup> is (a) hydrogen or (b) aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-

$C_7$ )cycloalkylalkanesulfinyl, halo( $C_1$ - $C_6$ )alkane-sulfinyl, halo( $C_3$ - $C_6$ )cycloalkanesulfinyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, ( $C_1$ - $C_6$ )alkanesulfonyl, ( $C_3$ - $C_6$ )cycloalkanesulfonyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, halo( $C_1$ - $C_6$ )alkanesulfonyl, halo( $C_3$ - $C_6$ )cycloalkanesulfonyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, ( $C_1$ - $C_6$ )alkylamino, di( $C_1$ - $C_6$ )alkylamino, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ , ( $C_1$ - $C_6$ )alkylaminocarbonyl, di( $C_1$ - $C_6$ )alkylaminocarbonyl, ( $C_1$ - $C_3$ )alkoxy( $C_1$ - $C_3$ )alkylaminocarbonyl, heterocyclylcarbonyl, ( $C_1$ - $C_6$ )alkylaminosulfonyl, di( $C_1$ - $C_6$ )alkylaminosulfonyl, heterocyclsulfonyl, ( $C_1$ - $C_6$ )alkylcarbonylamino, ( $C_1$ - $C_6$ )alkylcarbonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylsulfonylamino, ( $C_1$ - $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, hydroxy( $C_1$ - $C_6$ )alkoxy, heteroaryl, oxo, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl amino( $C_2$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxy, di( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxyl and ( $C_1$ - $C_6$ )alkylcarbonyl;

Y is ( $C_1$ - $C_6$ )alkyl or halo( $C_1$ - $C_6$ )alkyl;

n is 0, 1 or 2;

E is (a) a bond or (b) ( $C_1$ - $C_3$ )alkylene or ( $C_1$ - $C_2$ )alkylenyloxy, wherein the O is attached to  $R^2$ , each of which is optionally substituted with 1 to 4 groups independently selected from methyl, ethyl, trifluoromethyl or oxo;

$R^2$  is ( $C_1$ - $C_6$ )alkyl, aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with up to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, ( $C_1$ - $C_6$ )alkyl, hydroxy( $C_1$ - $C_6$ )alkyl, ( $C_3$ - $C_6$ )cycloalkyl, hydroxy( $C_3$ - $C_6$ )cycloalkyl, ( $C_4$ - $C_7$ )cycloalkylalkyl, ( $C_2$ - $C_6$ )alkenyl, halo( $C_2$ - $C_6$ )alkenyl, hydroxy( $C_2$ - $C_6$ )alkenyl, ( $C_2$ - $C_6$ )alkynyl, ( $C_3$ - $C_6$ )cycloalkyl( $C_2$ - $C_4$ )alkynyl, halo( $C_1$ - $C_6$ )alkyl, halo( $C_3$ - $C_6$ )cycloalkyl, halo( $C_4$ - $C_7$ )cycloalkylalkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_3$ - $C_6$ )cycloalkoxy, ( $C_4$ - $C_7$ )cycloalkylalkoxy, halo( $C_1$ - $C_6$ )alkoxy, halo( $C_3$ - $C_6$ )cycloalkoxy, halo( $C_4$ - $C_7$ )cycloalkylalkoxy, ( $C_1$ - $C_6$ )alkylthio, ( $C_3$ - $C_6$ )cycloalkylthio, ( $C_4$ - $C_7$ )cycloalkylalkylthio, halo( $C_1$ - $C_6$ )alkylthio, halo( $C_3$ - $C_6$ )cycloalkylthio, halo( $C_4$ - $C_7$ )cycloalkylalkylthio, ( $C_1$ - $C_6$ )alkanesulfinyl, ( $C_3$ - $C_6$ )cycloalkanesulfinyl, ( $C_4$ -



$C_7$ )cycloalkylalkanesulfinyl, halo( $C_1$ - $C_6$ )alkane-sulfinyl, halo( $C_3$ - $C_6$ )cycloalkanesulfinyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, ( $C_1$ - $C_6$ )alkanesulfonyl, ( $C_3$ - $C_6$ )cycloalkanesulfonyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, halo( $C_1$ - $C_6$ )alkanesulfonyl, halo( $C_3$ - $C_6$ )cycloalkanesulfonyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, ( $C_1$ - $C_6$ )alkylamino, di( $C_1$ - $C_6$ )alkylamino, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ , ( $C_1$ - $C_6$ )alkylaminocarbonyl, di( $C_1$ - $C_6$ )alkylaminocarbonyl, ( $C_1$ - $C_3$ )alkoxy( $C_1$ - $C_3$ )alkylaminocarbonyl, heterocyclylcarbonyl, ( $C_1$ - $C_6$ )alkylaminosulfonyl, di( $C_1$ - $C_6$ )alkylaminosulfonyl, heterocyclsulfonyl, ( $C_1$ - $C_6$ )alkylcarbonylamino, ( $C_1$ - $C_6$ )alkylcarbonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylsulfonylamino, ( $C_1$ - $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, hydroxy( $C_1$ - $C_6$ )alkoxy, heteroaryl, oxo, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl amino( $C_2$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxy, di( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxyl and ( $C_1$ - $C_6$ )alkylcarbonyl;

$R^3$  is selected from ( $C_1$ - $C_6$ )alkyl, ( $C_2$ - $C_6$ )alkenyl, ( $C_2$ - $C_6$ )alkynyl and ( $C_1$ - $C_3$ )alkoxy( $C_1$ - $C_3$ )alkyl, wherein each is optionally substituted with up to four groups independently selected from fluorine, cyano, oxo,  $R^4$ ,  $R^4O$ -, ( $R^4$ ) $_2$ N-,  $R^4O_2C$ -,  $R^4S$ ,  $R^4S(=O)$ -,  $R^4S(=O)_2$ -,  $R^4C(=O)NR^4$ , ( $R^4$ ) $_2$ NC(=O)-, ( $R^4$ ) $_2$ NC(=O)O-, ( $R^4$ ) $_2$ NC(=O)NR $^4$ -,  $R^4OC(=O)NR^4$ -, ( $R^4$ ) $_2$ NC(=NCN)NR $^4$ , ( $R^4O$ ) $_2$ P(=O)O-, ( $R^4O$ ) $_2$ P(=O)NR $^4$ -,  $R^4OS(=O)_2NR^4$ , ( $R^4$ ) $_2$ NS(=O) $_2$ O, ( $R^4$ ) $_2$ NS(=O) $_2$ NR $^4$ ,  $R^4S(=O)_2NR^4$ -,  $R^4S(=O)_2NHC(=O)$ -,  $R^4S(=O)_2NHC(=O)O$ -,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)$ -,  $R^4OS(=O)_2NHC(=O)O$ -,  $R^4OS(=O)_2NHC(=O)NR^4$ , ( $R^4$ ) $_2$ NS(=O) $_2$ NHC(=O)-, ( $R^4$ ) $_2$ NS(=O) $_2$ NHC(=O)O-, ( $R^4$ ) $_2$ NS(=O) $_2$ NHC(=O)NR $^4$ ,  $R^4C(=O)NHS(=O)_2$ -,  $R^4C(=O)NHS(=O)_2O$ -,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2$ -,  $R^4OC(=O)NHS(=O)_2O$ -,  $R^4OC(=O)NHS(=O)_2NR^4$ , ( $R^4$ ) $_2$ NC(=O)NHS(=O) $_2$ -, ( $R^4$ ) $_2$ NC(=O)NHS(=O) $_2O$ -, ( $R^4$ ) $_2$ NC(=O)NHS(=O) $_2NR^4$ , heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-

substituted amido and N,N-dialkyl-substituted amido) and heteroaryl-amino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

Q is O or NR<sup>5</sup>;

R<sup>4</sup> is independently selected from H; (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl and (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl;

R<sup>5</sup> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

2. The compound of Claim 1; wherein

R<sup>3</sup> is selected from substituted (C<sub>1</sub>-C<sub>6</sub>)alkyl, or optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkenyl, optionally substituted (C<sub>2</sub>-C<sub>6</sub>)alkynyl and optionally substituted (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>2</sub>-C<sub>3</sub>)alkyl, wherein each substituted group represented by R<sup>3</sup> has up to four groups independently selected from fluorine, cyano, oxo, R<sup>4</sup>, R<sup>4</sup>O-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-, (R<sup>4</sup>)<sub>2</sub>NC(=N)NR<sup>4</sup>, (R<sup>4</sup>O)<sub>2</sub>P(=O)O-, (R<sup>4</sup>O)<sub>2</sub>P(=O)NR<sup>4</sup>-, R<sup>4</sup>OS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>O, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>S(=O)<sub>2</sub>NR<sup>4</sup>-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>S(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)O-, R<sup>4</sup>OS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>C(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>O-, R<sup>4</sup>OC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), aryl-amino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroaryl-amino (which

in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo); or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

3. The compound of Claim 1; wherein

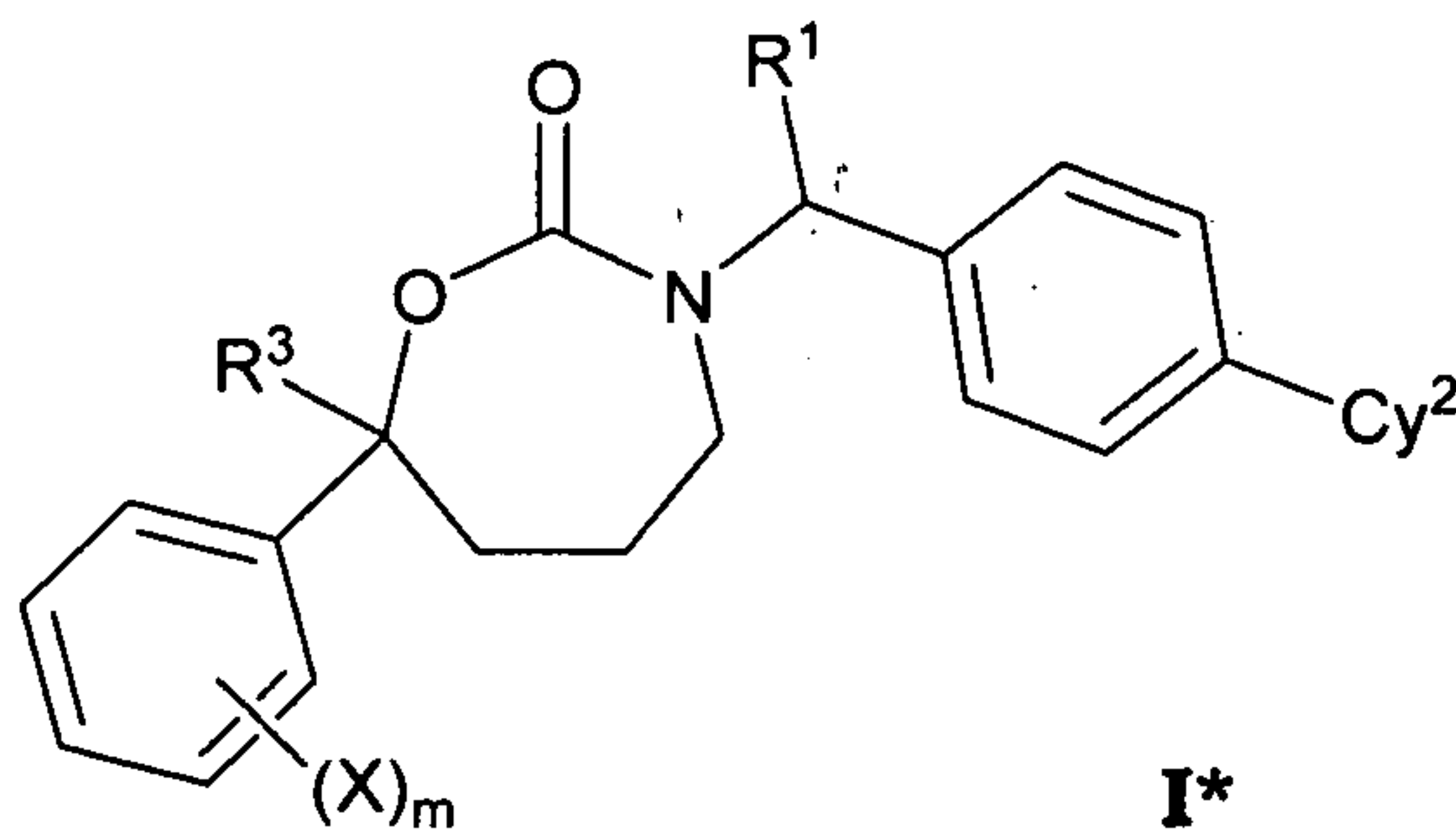
E is a bond;

R<sup>2</sup> is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

$R^3$  is selected from substituted ( $C_1$ - $C_6$ )alkyl, or optionally substituted ( $C_2$ - $C_6$ )alkenyl, optionally substituted ( $C_2$ - $C_6$ )alkynyl and optionally substituted ( $C_1$ - $C_3$ )alkoxy( $C_2$ - $C_3$ )alkyl wherein each substituted group represented by  $R^3$  has up to four groups independently selected from cyano,  $R^4$ ,  $(R^4)_2N-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4$ ,  $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ , heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroarylamino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

4. The compound of claim 1 wherein the compound is of Formula (I\*)



$R^1$  is (C<sub>1</sub>-C<sub>6</sub>)alkyl, optionally substituted with up to four groups independently selected from fluorine, cyano, oxo,  $R^4$ ,  $R^4O-$ ,  $(R^4)_2N-$ ,  $R^4O_2C-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4-$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4-$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4-$ ,  $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4-$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4-$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4-$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4-$ ,  $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4-$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4-$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4-$ , aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

$Cy^2$  is aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-

C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

X is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

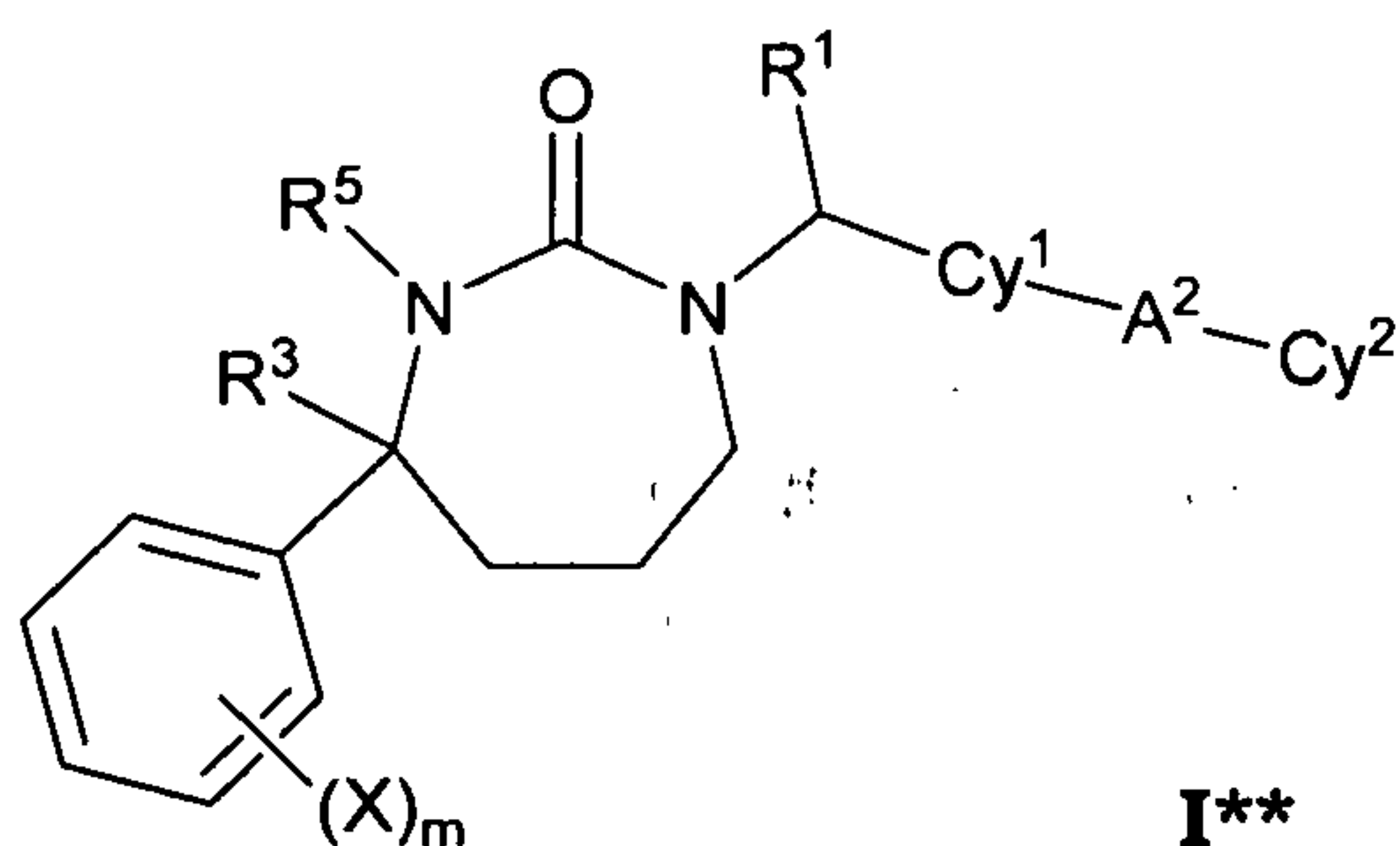
m is 0, 1, 2, 3, 4;

R<sup>3</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl substituted with up to four groups independently selected from cyano, oxo, HO-, (R<sup>4</sup>)<sub>2</sub>N-, R<sup>4</sup>O<sub>2</sub>C-, R<sup>4</sup>S, R<sup>4</sup>S(=O)-, R<sup>4</sup>S(=O)<sub>2</sub>-, R<sup>4</sup>C(=O)NR<sup>4</sup>, (R<sup>4</sup>)<sub>2</sub>NC(=O)-, (R<sup>4</sup>)<sub>2</sub>NC(=O)O-, (R<sup>4</sup>)<sub>2</sub>NC(=O)NR<sup>4</sup>-, R<sup>4</sup>OC(=O)NR<sup>4</sup>-,

$(R^4)_2NC(=NCN)NR^4$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  $R^4OS(=O)_2NR^4-$ ,  
 $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4$ ,  $R^4S(=O)_2NR^4-$ ,  $R^4S(=O)_2NHC(=O)-$ ,  
 $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4$ ,  $R^4OS(=O)_2NHC(=O)-$ ,  
 $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4$ ,  $(R^4)_2NS(=O)_2NHC(=O)-$ ,  
 $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4$ ,  $R^4C(=O)NHS(=O)_2-$ ,  
 $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4$ ,  $R^4OC(=O)NHS(=O)_2-$ ,  
 $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4$ ,  $(R^4)_2NC(=O)NHS(=O)_2-$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4$ , heterocyclyl (which in turn  
 may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in  
 turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio,  
 alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ ,  
 N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino  
 (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio,  
 alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  $CO_2H$ ,  $CONH_2$ ,  
 N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and  
 heteroarylamino (which in turn may be optionally substituted with alkyl, haloalkyl,  
 alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano,  
 $CO_2H$ ,  $CONH_2$ , N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or  
 oxo);

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

5. The compound of claim 1 wherein the compound is of Formula (I\*\*)



$R^1$  is  $(C_1-C_6)$ alkyl, optionally substituted with up to four groups independently  
 selected from fluorine, cyano, oxo,  $R^4$ ,  $R^4O-$ ,  $(R^4)_2N-$ ,  $R^4O_2C-$ ,  $R^4S$ ,  $R^4S(=O)-$ ,  
 $R^4S(=O)_2-$ ,  $R^4C(=O)NR^4-$ ,  $(R^4)_2NC(=O)-$ ,  $(R^4)_2NC(=O)O-$ ,  $(R^4)_2NC(=O)NR^4-$ ,  
 $R^4OC(=O)NR^4-$ ,  $(R^4)_2NC(=NCN)NR^4-$ ,  $(R^4O)_2P(=O)O-$ ,  $(R^4O)_2P(=O)NR^4-$ ,  
 $R^4OS(=O)_2NR^4-$ ,  $(R^4)_2NS(=O)_2O-$ ,  $(R^4)_2NS(=O)_2NR^4-$ ,  $R^4S(=O)_2NR^4-$ ,  
 $R^4S(=O)_2NHC(=O)-$ ,  $R^4S(=O)_2NHC(=O)O-$ ,  $R^4S(=O)_2NHC(=O)NR^4-$ ,  
 $R^4OS(=O)_2NHC(=O)-$ ,  $R^4OS(=O)_2NHC(=O)O-$ ,  $R^4OS(=O)_2NHC(=O)NR^4-$ ,

$(R^4)_2NS(=O)_2NHC(=O)-$ ,  $(R^4)_2NS(=O)_2NHC(=O)O-$ ,  $(R^4)_2NS(=O)_2NHC(=O)NR^4-$ ,  
 $R^4C(=O)NHS(=O)_2-$ ,  $R^4C(=O)NHS(=O)_2O-$ ,  $R^4C(=O)NHS(=O)_2NR^4-$ ,  
 $R^4OC(=O)NHS(=O)_2-$ ,  $R^4OC(=O)NHS(=O)_2O-$ ,  $R^4OC(=O)NHS(=O)_2NR^4-$ ,  
 $(R^4)_2NC(=O)NHS(=O)_2-$ ,  $(R^4)_2NC(=O)NHS(=O)_2O-$ ,  $(R^4)_2NC(=O)NHS(=O)_2NR^4-$ ,  
 aryl, cycloalkyl, heterocyclyl, heteroaryl, arylamino and heteroarylamino;

Cy<sup>1</sup> is aryl, heteroaryl, monocyclic cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclylsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

A<sup>2</sup> is a bond;



Cy<sup>2</sup> is (a) hydrogen or (b) aryl, heteroaryl, cycloalkyl or heterocyclyl, wherein each is optionally substituted with 1 to 4 groups independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkane-sulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclylcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

X is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-

$C_6$ )cycloalkylthio, halo( $C_4$ - $C_7$ )cycloalkylalkylthio, ( $C_1$ - $C_6$ )alkanesulfinyl, ( $C_3$ - $C_6$ )cycloalkanesulfinyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, halo( $C_1$ - $C_6$ )alkanesulfinyl, halo( $C_3$ - $C_6$ )cycloalkanesulfinyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfinyl, ( $C_1$ - $C_6$ )alkanesulfonyl, ( $C_3$ - $C_6$ )cycloalkanesulfonyl, ( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, halo( $C_1$ - $C_6$ )alkanesulfonyl, halo( $C_3$ - $C_6$ )cycloalkanesulfonyl, halo( $C_4$ - $C_7$ )cycloalkylalkanesulfonyl, ( $C_1$ - $C_6$ )alkylamino, di( $C_1$ - $C_6$ )alkylamino, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxycarbonyl,  $H_2NCO$ ,  $H_2NSO_2$ , ( $C_1$ - $C_6$ )alkylaminocarbonyl, di( $C_1$ - $C_6$ )alkylaminocarbonyl, ( $C_1$ - $C_3$ )alkoxy( $C_1$ - $C_3$ )alkylaminocarbonyl, heterocyclylcarbonyl, ( $C_1$ - $C_6$ )alkylaminosulfonyl, di( $C_1$ - $C_6$ )alkylaminosulfonyl, heterocyclsulfonyl, ( $C_1$ - $C_6$ )alkylcarbonylamino, ( $C_1$ - $C_6$ )alkylcarbonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylsulfonylamino, ( $C_1$ - $C_6$ )alkylsulfonylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxycarbonyl( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, hydroxy( $C_1$ - $C_6$ )alkoxy, heteroaryl, oxo, amino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl amino( $C_2$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxy, di( $C_1$ - $C_6$ )alkylamino( $C_2$ - $C_6$ )alkoxy and ( $C_1$ - $C_6$ )alkylcarbonyl;

m is 0, 1, 2, 3, 4; and

$R^3$  is ( $C_1$ - $C_6$ )alkyl substituted with up to four groups independently selected from cyano, oxo,  $R^4$ , HO-, ( $R^4$ )<sub>2</sub>N-,  $R^4O_2C$ -,  $R^4S$ ,  $R^4S(=O)$ -,  $R^4S(=O)_2$ -,  $R^4C(=O)NR^4$ , ( $R^4$ )<sub>2</sub>NC(=O)-, ( $R^4$ )<sub>2</sub>NC(=O)O-, ( $R^4$ )<sub>2</sub>NC(=O)NR<sup>4</sup>-,  $R^4OC(=O)NR^4$ -, ( $R^4$ )<sub>2</sub>NC(=NCN)NR<sup>4</sup>-, ( $R^4O$ )<sub>2</sub>P(=O)O-, ( $R^4O$ )<sub>2</sub>P(=O)NR<sup>4</sup>-,  $R^4OS(=O)_2NR^4$ -, ( $R^4$ )<sub>2</sub>NS(=O)<sub>2</sub>O-, ( $R^4$ )<sub>2</sub>NS(=O)<sub>2</sub>NR<sup>4</sup>-,  $R^4S(=O)_2NR^4$ -,  $R^4S(=O)_2NHC(=O)$ -,  $R^4S(=O)_2NHC(=O)O$ -,  $R^4S(=O)_2NHC(=O)NR^4$ -,  $R^4OS(=O)_2NHC(=O)$ -,  $R^4OS(=O)_2NHC(=O)O$ -,  $R^4OS(=O)_2NHC(=O)NR^4$ -, ( $R^4$ )<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)-, ( $R^4$ )<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)O-, ( $R^4$ )<sub>2</sub>NS(=O)<sub>2</sub>NHC(=O)NR<sup>4</sup>-,  $R^4C(=O)NHS(=O)_2$ -,  $R^4C(=O)NHS(=O)_2O$ -,  $R^4C(=O)NHS(=O)_2NR^4$ -,  $R^4OC(=O)NHS(=O)_2$ -,  $R^4OC(=O)NHS(=O)_2O$ -,  $R^4OC(=O)NHS(=O)_2NR^4$ -, ( $R^4$ )<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>-, ( $R^4$ )<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>O-, ( $R^4$ )<sub>2</sub>NC(=O)NHS(=O)<sub>2</sub>NR<sup>4</sup>-, heterocyclyl (which in turn may be optionally substituted with alkyl, haloalkyl or oxo), heteroaryl (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo), arylamino (which in turn may be optionally substituted with alkyl, alkoxy, alkylthio,

alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido and N,N-dialkyl-substituted amido) and heteroaryl-amino (which in turn may be optionally substituted with alkyl, haloalkyl, alkoxy, alkylthio, alkylsulfonyl, halogen, trifluoromethyl, dialkylamino, nitro, cyano, CO<sub>2</sub>H, CONH<sub>2</sub>, N-monoalkyl-substituted amido, N,N-dialkyl-substituted amido, or oxo);  
or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

6. The compound of any of claims 1-5, wherein A<sup>1</sup> is a bond.
7. The compound of any of claims 1-6, wherein A<sup>1</sup> is (C<sub>1</sub>-C<sub>3</sub>)alkylene.
8. The compound of any of claims 1-7, wherein A<sup>1</sup> is methylene.
9. The compound of any of claims 1-8, wherein A<sup>1</sup> is CH and R<sup>1</sup> is present.
10. The compound of any of claims 1-9, wherein R<sup>1</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl.
11. The compound of any of claims 1-10, wherein R<sup>1</sup> is an optionally substituted methyl or ethyl.
12. The compound of any of claims 1-11, wherein R<sup>1</sup> is unsubstituted methyl or ethyl.
13. The compound of any of claims 1-12, wherein Cy<sup>1</sup> is optionally substituted aryl or optionally substituted heteroaryl.
14. The compound of any of claims 1-13, wherein Cy<sup>1</sup> is optionally substituted phenyl or optionally substituted pyridyl.
15. The compound of any of claims 1-14, wherein Cy<sup>1</sup> is optionally substituted monocyclic cycloalkyl.
16. The compound of any of claims 1-15, wherein Cy<sup>1</sup> is optionally substituted cyclohexyl.
17. The compound of any of claims 1-16, wherein Cy<sup>1</sup> is optionally substituted phenyl.
18. The compound of any of claims 1-17, wherein Cy<sup>1</sup> is substituted with fluorine, chlorine, bromine, methoxy, methoxycarbonyl, carboxy, or methyl.
19. The compound of any of claims 1-18, wherein A<sup>2</sup> is a bond and Cy<sup>2</sup> is hydrogen.
20. The compound of any of claims 1-19, wherein A<sup>2</sup> is a bond and Cy<sup>2</sup> is hydrogen.
21. The compound of any of claims 1-20, wherein A<sup>2</sup> is a bond and Cy<sup>2</sup> is hydrogen.

22. The compound of any of claims 1-21, wherein  $A^2$  is a bond and  $Cy^2$  is hydrogen.
23. The compound of any of claims 1-22, wherein  $A^2$  is a bond and  $Cy^2$  is cyclopropyl.
24. The compound of any of claims 1-23, wherein  $A^2$  is a bond and  $Cy^2$  is optionally substituted aryl or optionally substituted heteroaryl.
25. The compound of any of claims 1-24, wherein  $A^2$  is a bond and  $Cy^2$  is optionally substituted phenyl or optionally substituted pyridyl.
26. The compound of any of claims 1-25, wherein  $Cy^2$  is optionally substituted phenyl.
27. The compound of any of claims 1-26, wherein  $Cy^2$  is substituted with 1 to 4 groups independently selected from chlorine or fluorine.
28. The compound of any of claims 1-27, wherein  $Cy^2$  is difluorophenyl.
29. The compound of any of claims 1-28, wherein  $Cy^2$  is fluorophenyl.
30. The compound of any of claims 1-29, wherein  $R^3$  is hydroxy( $C_2$ - $C_4$ )alkyl.
31. The compound of any of claims 1-30, wherein  $R^3$  is dihydroxy( $C_3$ - $C_4$ )alkyl.
32. The compound of any of claims 1-31, wherein  $R^3$  is  $\omega$ - $H_2NCO$ ( $C_1$ - $C_3$ )alkyl.
33. The compound of any of claims 1-32, wherein  $R^3$  is  $H_2NC(=O)CH_2CH_2$ .
34. The compound of any of claims 1-33, wherein  $R^3$  is ( $C_1$ - $C_2$ )alkoxy( $C_1$ - $C_3$ )alkyl.
35. The compound of any of claims 1-34, wherein  $R^3$  is  $H_2NSO_2O$ ( $C_2$ - $C_4$ )alkyl.
36. The compound of any of claims 1-35, wherein  $R^3$  is  $H_2NSO_2NH$ ( $C_2$ - $C_4$ )alkyl.
37. The compound of any of claims 1-36, wherein  $R^3$  is oxo( $C_2$ - $C_4$ )alkyl.
38. The compound of any of claims 1-37, wherein  $R^3$  is alkenyl.
39. The compound of any of claims 1-38, wherein  $R^3$  is allyl.
40. The compound of any of claims 1-39, wherein  $R^3$  is  $MeC(=O)NH$ ( $C_2$ - $C_4$ )alkyl.
41. The compound of any of claims 1-40, wherein  $R^3$  is  $MeOC(=O)NH$ ( $C_2$ - $C_4$ )alkyl.
42. The compound of any of claims 1-41, wherein  $R^3$  is cyanoalkyl.
43. The compound of any of claims 1-42, wherein  $R^3$  is alkylsulfonylaminoalkyl.
44. The compound of any of claims 1-43, wherein  $R^3$  is  $MeS(=O)_2NH$ ( $C_2$ - $C_4$ )alkyl.
45. The compound of any of claims 1-44, wherein  $R^3$  is  $MeS(=O)_2NHCH_2CH_2CH_2CH_2$ .
46. The compound of any of claims 1-45, wherein  $R^3$  is alkylhydroxyalkyl.
47. The compound of any of claims 1-46, wherein  $R^3$  is hydroxyalkoxyalkyl.
48. The compound of any of claims 1-47, wherein  $R^3$  is aminocarbonylaminoalkyl.

49. The compound of any of claims 1-48, wherein R<sup>3</sup> is aminocarboxyalkyl.
50. The compound of any of claims 1-49, wherein R<sup>3</sup> is 2-(4-morpholino)ethyl.
51. The compound of any of claims 1-50, wherein R<sup>3</sup> is 2-(1-imidazolyl)ethyl.
52. The compound of any of claims 1-51, wherein R<sup>2</sup> is optionally substituted aryl, optionally substituted heteroaryl or optionally substituted cycloalkyl.
53. The compound of any of claims 1-52, wherein R<sup>2</sup> is optionally substituted phenyl, optionally substituted thienyl or optionally substituted pyridyl.
54. The compound of any of claims 1-53, wherein R<sup>2</sup> is optionally substituted phenyl.
55. The compound of any of claims 1-54, wherein E is a bond.
56. The compound of any of claims 1-55, wherein R<sup>2</sup> is fluorophenyl.
57. The compound of any of claims 1-56, wherein R<sup>2</sup> is an optionally substituted alkyl.
58. The compound of any of claims 1-57, wherein R<sup>2</sup> is an optionally substituted isopropyl.
59. The compound of claim 1; wherein  
R<sup>1</sup> is absent or is methyl or ethyl;  
A<sup>1</sup> is a bond or CH<sub>2</sub> or if R<sup>1</sup> is present, then A<sup>1</sup> is CH;

Cy<sup>1</sup> is phenyl, cyclopropyl, cyclohexyl, pyrrolidinyl, pyridyl, N-oxo-pyridyl, thiazolyl or pyrimidinyl each optionally substituted with 1 to 4 groups independently selected from halo, methyl, trifluoromethyl, hydroxy, methoxy, methoxycarbonyl, carboxy, ethoxycarbonylmethoxy 2-hydroxy-2-methylpropoxy, cyano, difluoromethoxy, t-butoxycarbonyl, hydroxy, hydroxymethyl, 2-hydroxyethyl, 2-hydroxy-2-propyl, methoxymethyl, methylsulfonyl and methylsulfonylamino;

A<sup>2</sup> is a bond, O, OCH<sub>2</sub>CO or C=O;

Cy<sup>2</sup> is (a) hydrogen or (b) phenyl, thienyl, pyridyl, N-oxo-pyridyl, cyclopropyl, piperidinyl, piperazinyl, morpholinyl, thiazolyl, oxadiazolyl, thiadiazolyl, pyrazolyl, S,S-dioxothiazinyl, 2-oxo-1,2-dihydropyridyl each optionally substituted by 1 to 4 groups independently selected from aminomethyl, 1-aminoethyl, halo, hydroxy, methoxy, hydroxymethyl, methoxycarbonyl, amino, carbamoyl, methylcarbamoyl, dimethylcarbamoyl, (2-methoxyethyl)aminocarbonyl, acetylaminomethyl, methylsulfonyl, methylsulfonylamino, methylaminosulfonyl, isopropylaminosulfonyl,

dimethylaminosulfonyl, pyrrolidine-1-sulfonyl, methylsulfonylaminomethyl, tetrazolyl, methyl, trifluoromethyl, acetyl, 2-hydroxyethyl and 1-aminoethyl;

n is 0;

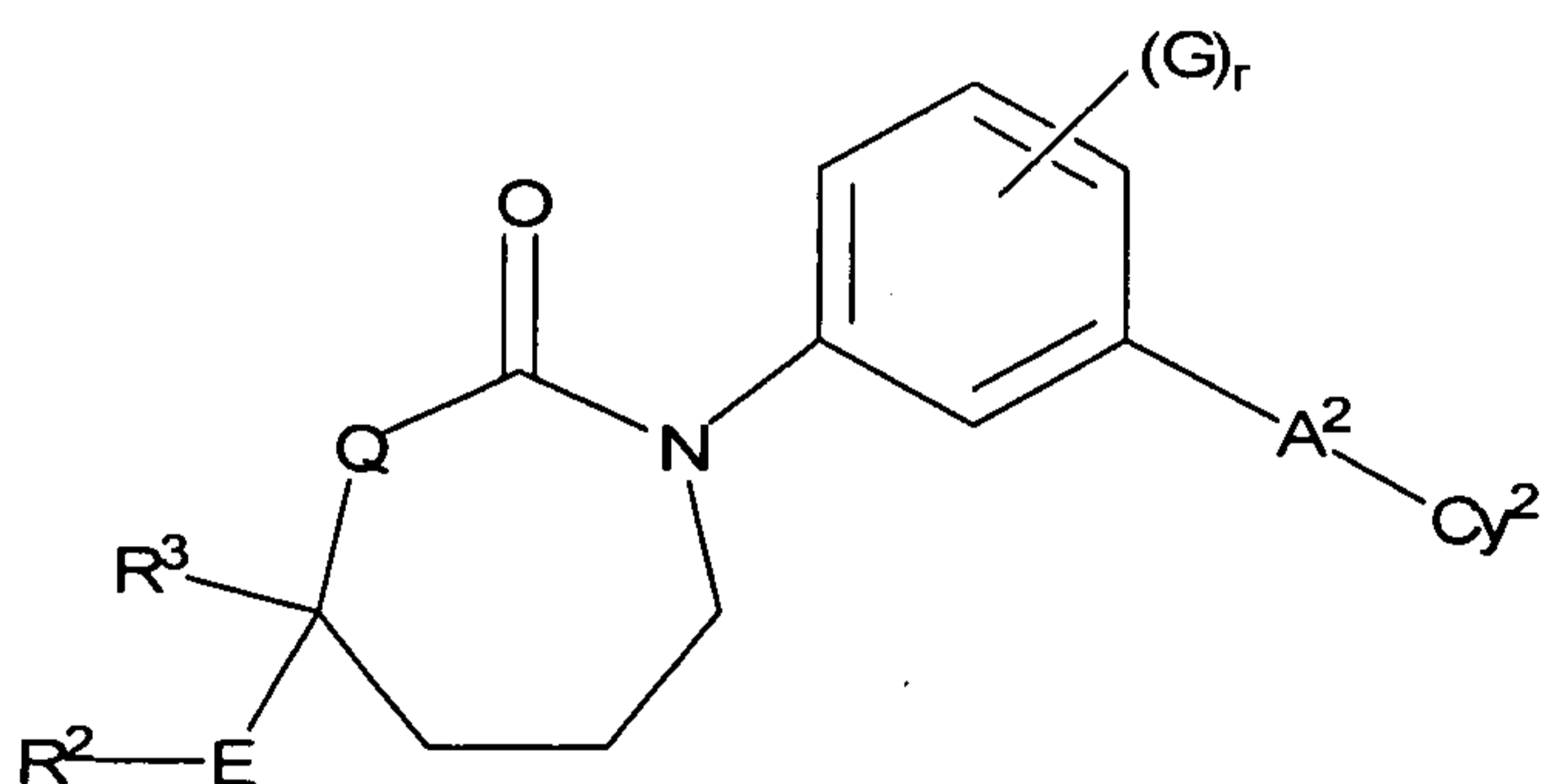
E is a bond or CH<sub>2</sub>;

R<sup>2</sup> is cyclohexyl, isopropyl, thienyl, phenyl or pyridyl, each optionally substituted with one group selected from halo, methyl, methylthio or (4-morpholino)methyl;

R<sup>3</sup> is methyl, ethyl, propyl, butyl, vinyl, allyl or ethoxyethyl, each optionally substituted with up to two groups independently selected from methyl, H<sub>2</sub>C=CH, HO-, MeO-, MeC(=O), H<sub>2</sub>N-, MeC(=O)NH-, MeS(=O)<sub>2</sub>NH-, H<sub>2</sub>NC(=O)-, MeNHC(=O)-, HO<sub>2</sub>C-, HO-(CH<sub>2</sub>)<sub>2</sub>O-, (HO)<sub>2</sub>P(=O)O-, H<sub>2</sub>NS(=O)<sub>2</sub>O-, H<sub>2</sub>NS(=O)<sub>2</sub>NH-, MeNHC(=O)NH-, MeNHC(=O)O-, cyano, HO<sub>2</sub>C-, HOCH<sub>2</sub>CH<sub>2</sub>NH-, 4-morpholino, HOCH<sub>2</sub>C(=O)NH-, H<sub>2</sub>NCH<sub>2</sub>C(=O)NH-, EtNHC(=O)NH, H<sub>2</sub>NHC(=O)NH, H<sub>2</sub>NHC(=O)O-, CH<sub>3</sub>C(=O)-, MeOC(=O)NH-, MeNHC(=NC≡N)NH-, Me-, MeS-, MeSO<sub>2</sub>- MeSO<sub>2</sub>N(Me)-, MeS(=O)<sub>2</sub>NHC(=O)-, imidazolylamino-, imidazolyl, morpholino, tetrazolyl, H<sub>2</sub>NCONH-, H<sub>2</sub>NCO<sub>2</sub>-, HOCH<sub>2</sub>CH<sub>2</sub>O-, MeNH-, Me<sub>2</sub>N- and MeCONMe; and

R<sup>5</sup> is hydrogen or methyl.

60. The compound of claim 1 wherein the compound is of Formula (Ia)



; wherein

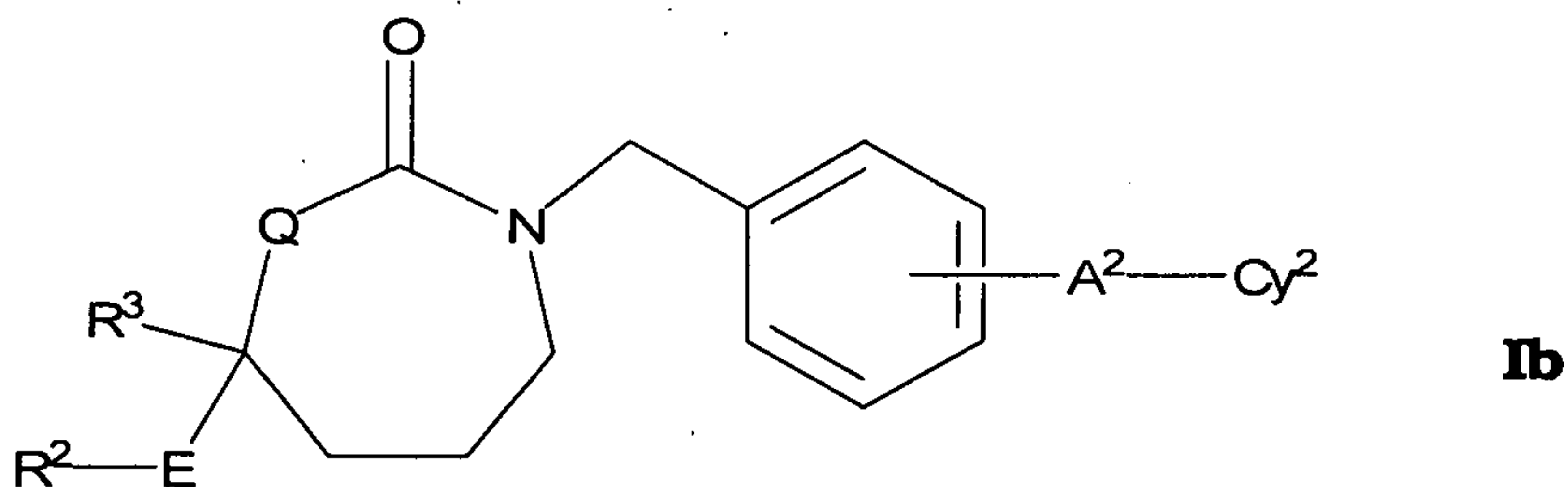
r is 0, 1, 2, 3 or 4; and

G is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-

C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl or (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

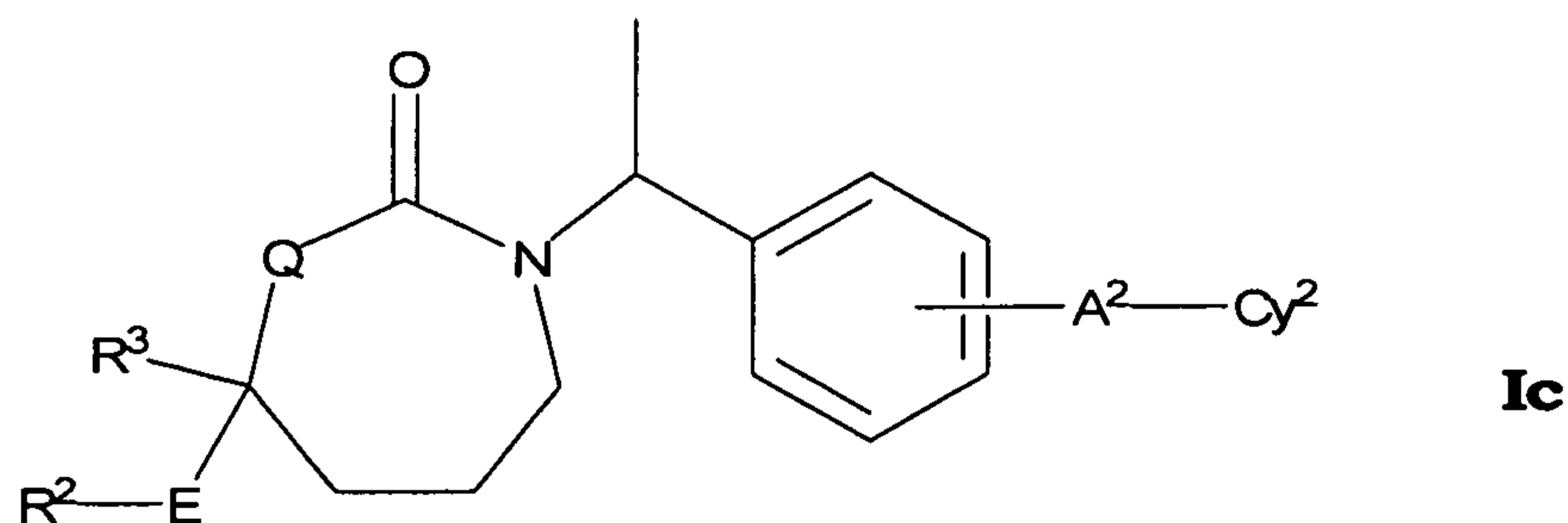
or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

61. The compound of claim 1 wherein the compound is of Formula (Ib)



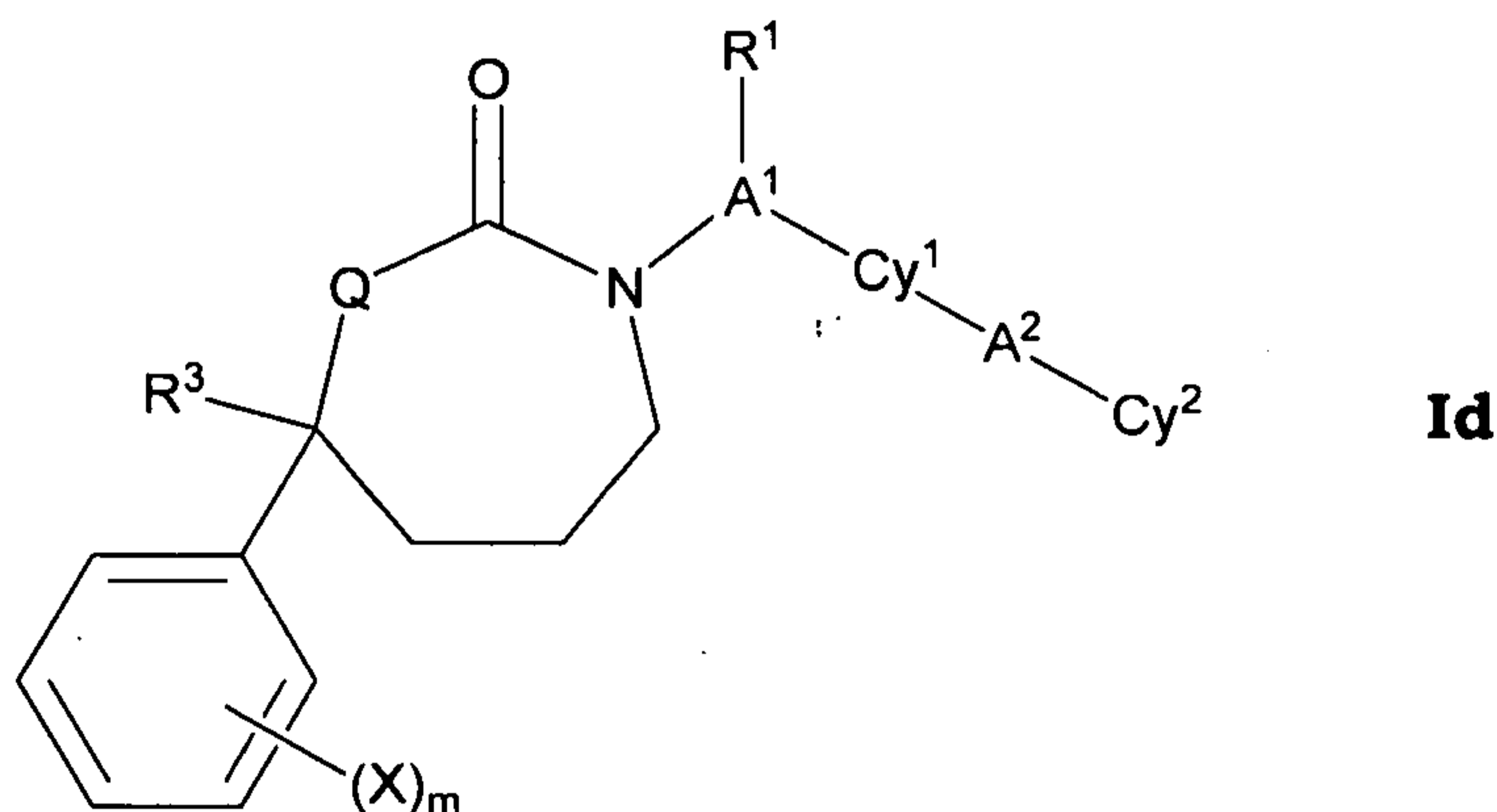
or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

62. The compound of claim 1 wherein the compound is of Formula (Ic)



or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

63. The compound of claim 1 wherein the compound is of Formula (Id)



; wherein

m is 0, 1, 2, 3 or 4;

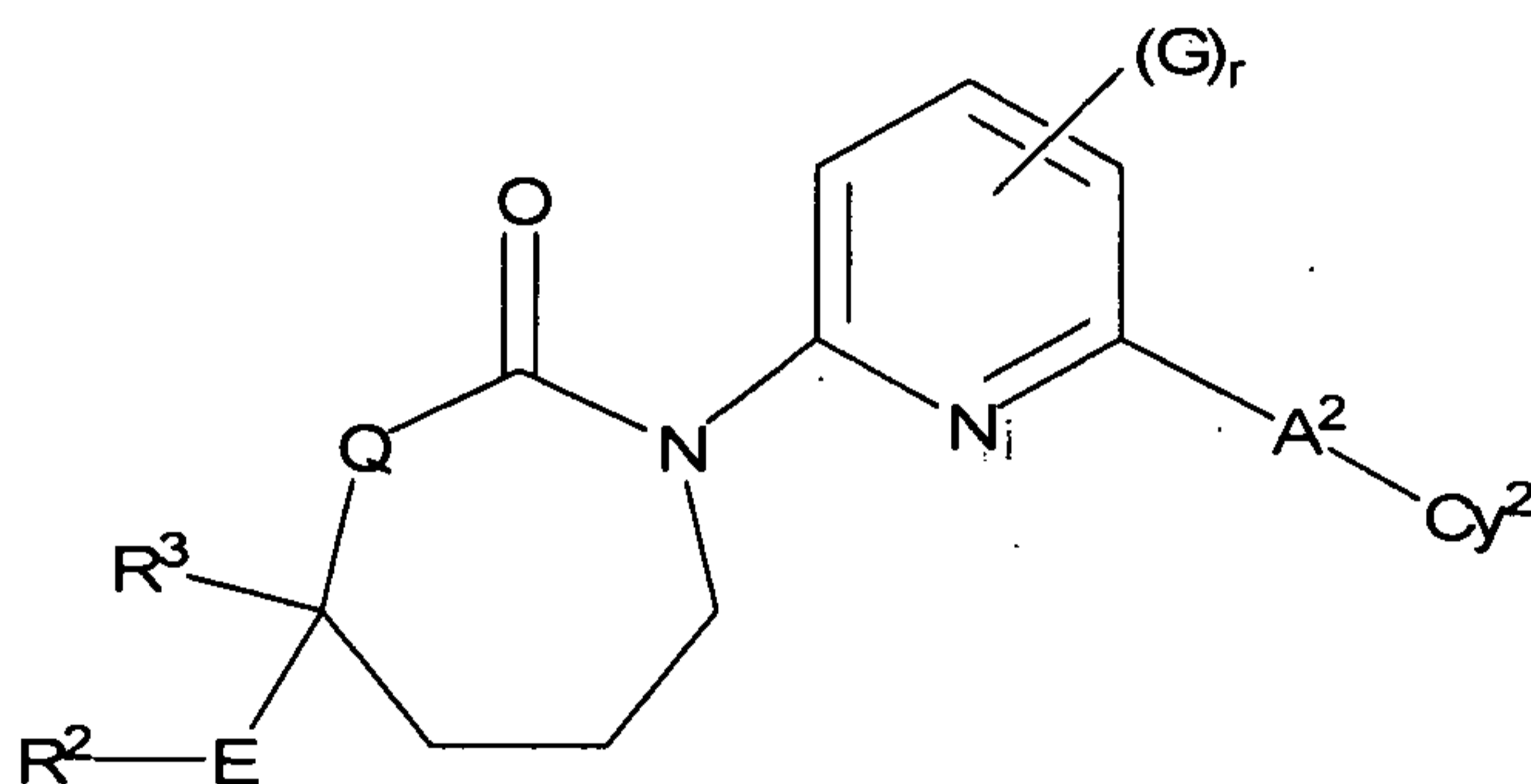
X is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-



(C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

64. The compound of claim 1 wherein the compound is of Formula (Ie)



**Ie**

; wherein

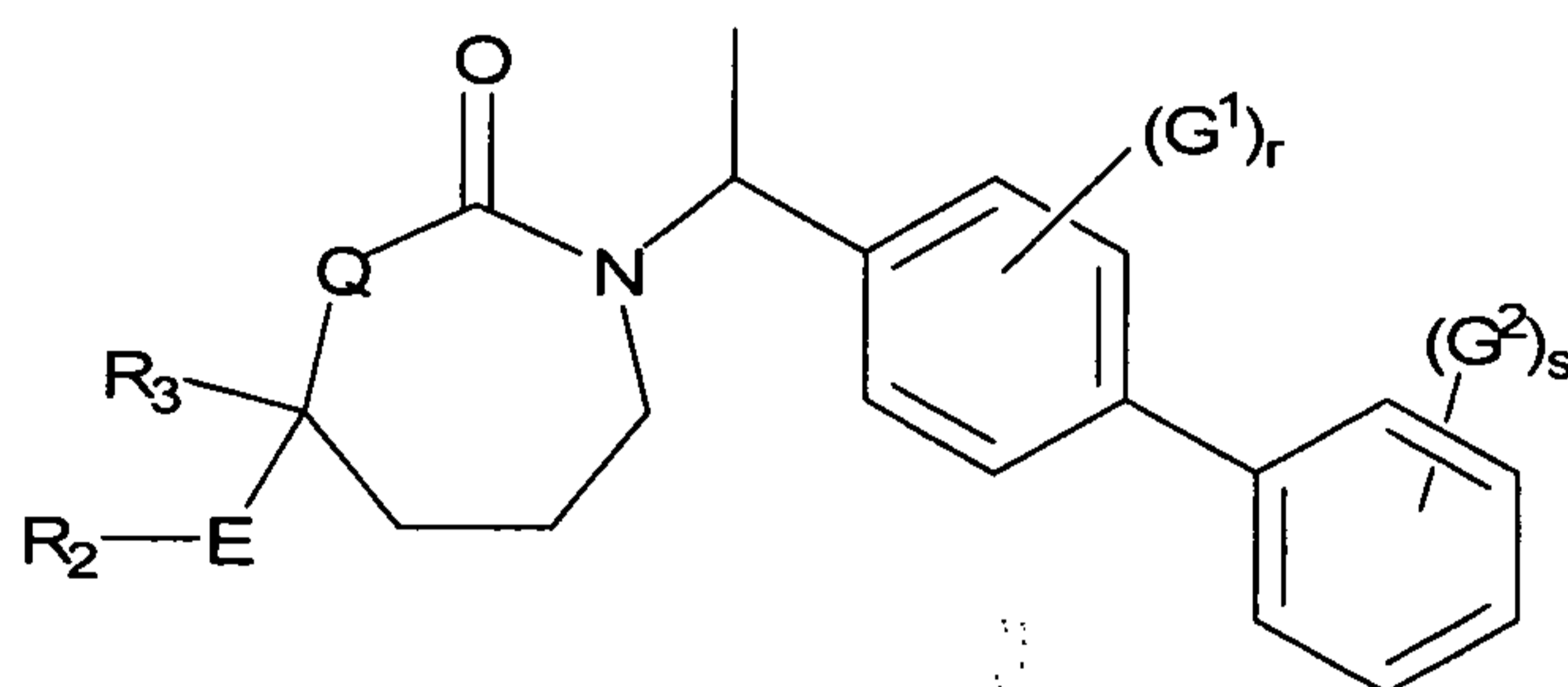
r is 0, 1, 2, 3 or 4;

G is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO,

H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, oxo, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

65. The compound of claim 1 wherein the compound is of Formula (If)



**If**

; wherein

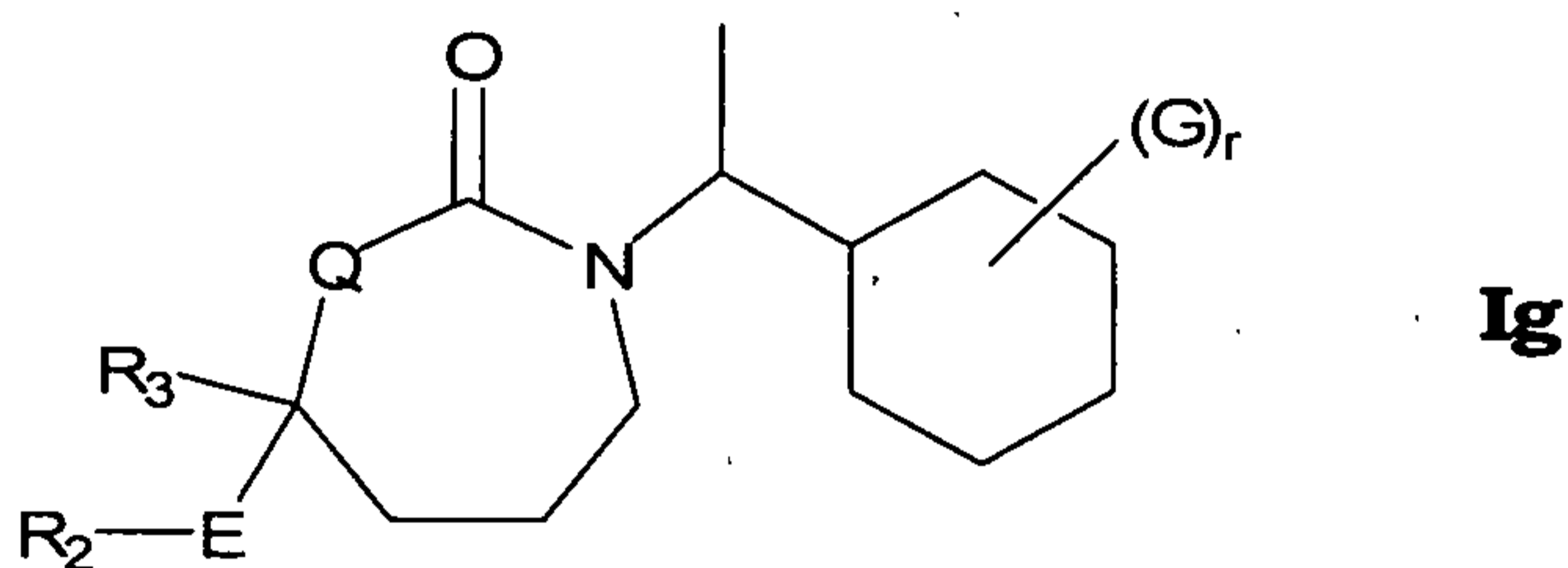
r and s are independently 0, 1, 2, 3 or 4; and

G<sup>1</sup> and G<sup>2</sup> are independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO,

H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-carbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl,, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

66. The compound of claim 1 wherein the compound is of Formula (Ig)



; wherein

r is 0, 1, 2, 3 or 4; and

G is independently selected from fluorine, chlorine, bromine, iodine, cyano, nitro, amino, hydroxy, carboxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, hydroxy(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, halo(C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl(C<sub>2</sub>-C<sub>4</sub>)alkynyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkoxy, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylthio, (C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, halo(C<sub>1</sub>-C<sub>6</sub>)alkylthio, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkylthio, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkylthio, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfinyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfinyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfinyl, (C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, (C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkanesulfonyl, halo(C<sub>3</sub>-C<sub>6</sub>)cycloalkanesulfonyl, halo(C<sub>4</sub>-C<sub>7</sub>)cycloalkylalkanesulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxycarbonyl, H<sub>2</sub>NCO, H<sub>2</sub>NSO<sub>2</sub>, (C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminocarbonyl, (C<sub>1</sub>-

(C<sub>3</sub>)alkoxy(C<sub>1</sub>-C<sub>3</sub>)alkylaminocarbonyl, heterocyclcarbonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylaminosulfonyl, heterocyclsulfonyl, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino, (C<sub>1</sub>-C<sub>6</sub>)alkylsulfonylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-carbonyl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy, heteroaryl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl amino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxy, di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>2</sub>-C<sub>6</sub>)alkoxyl and (C<sub>1</sub>-C<sub>6</sub>)alkylcarbonyl;

or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.

67. A method of treating a subject with a disease associated with the activity or expression of 11 $\beta$ -HSD1, comprising the step of administering to the subject an effective amount of a compound of claims 1-66.
68. A method of inhibiting 11 $\beta$ -HSD1 activity comprising the step of administering to a mammal in need of such treatment an effective amount of a compound of claims 1-66.
69. A pharmaceutical composition comprising: i) a pharmaceutically acceptable carrier or diluent; and ii) the compound in any one of claims 1-66; or a pharmaceutically acceptable salt, enantiomer or diastereomer thereof.