### (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 8 May 2008 (08.05.2008) PCT

# (10) International Publication Number WO 2008/054808 A3

(51) International Patent Classification:

A61K 31/7068 (2006.01) A61K 9/32 (2006.01)

A61K 9/20 (2006.01) A61K 9/36 (2006.01)

(21) International Application Number:

PCT/US2007/023086

(22) International Filing Date: 30 October 2007 (30.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 60/863,685 31 October 2006 (31.10.2006) US

(71) Applicant (for all designated States except US): ACHILLION PHARMACEUTICALS, INC. [US/US]; 300 George Street, New Haven, CT 06511 (US).

(72) Inventors; and

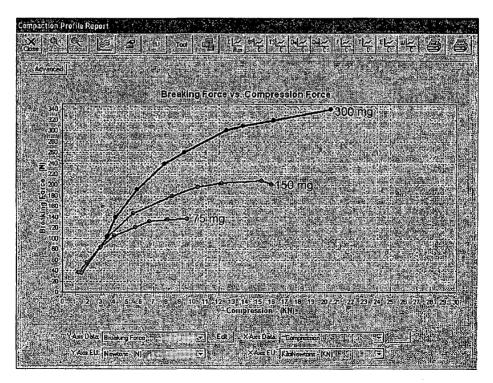
- (75) Inventors/Applicants (for US only): SHAH, Gautam [US/US]; 6 Todds Way, Westport, CT (US). BUBB, Gary [US/US]; 756 Country Road 513, Pittstown, NJ 08867 (US). AHMADI, Maryann [US/US]; 13 Stuart Drive, Newtown, CT 06470 (US).
- (74) Agent: ZHAO, Yong; Cantor Colburn LLP, 55 Griffin Road South, Bloomfield, CT 06002 (US).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 7 August 2008

(54) Title: ELVUCITABINE PHARMACEUTICAL COMPOSITIONS



(57) Abstract: The invention provides novel pharmaceutical compositions of Elvucitabine. The invention also provides pharmaceutical compositions and oral dosage forms having unique physical - chemical properties.

WO 2008/054808 A3 ||||||||||||

#### INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/023086 A. CLASSIFICATION OF SUBJECT MATTER INV. A61K9/20 A61K9/32 A61K31/7068 A61K9/36 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, CHEM ABS Data, BIOSIS, EMBASE C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 2006/084628 A1 (POTTAGE JOHN [US]) 20 April 2006 (2006-04-20) 1 - 18χ paragraphs [0067] - [0073], [0091] -[0123] examples 1-9 X US 2005/244490 A1 (OTTO MICHAEL [US] ET 1-3 AL) 3 November 2005 (2005-11-03) examples 2,3 US 5 725 884 A (SHERWOOD BOB E [US] ET AL) 1 - 1810 March 1998 (1998-03-10) the whole document

Further documents are listed in the continuation of Box C.	X See patent family annex.	
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filling date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filling date but later than the priority date claimed	<ul> <li>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>*&amp;* document member of the same patent family</li> </ul>	
Date of the actual completion of the international search  26 May 2008	Date of mailing of the international search report  17/06/2008	
Name and mailing address of the ISA/  European Patent Office, P.B. 5818 Patentlaan 2  NL. – 2280 HV Rijswijk  Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  Fax: (+31-70) 340-3016	Authorized officer Sproll, Susanne	

## INTERNATIONAL SEARCH REPORT

International application No PCT/US2007/023086

C(Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	PC1/US2007/023086
Category*	Citation of document with indication, where appropriate of the value of the same of the sa	Relevant to claim No.
A	MUNOZ-RUIZ A; MONEDERO PERALES M C; VELASCO ANTEQUERA M V; PAYAN VILLAR T; MUNOZ-MUNOZ N; JIMENEZ-CASTELLANOS M R: "Rheology and compression characteristics of lactose based direct compression excipients" INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol. 95, 1993, pages 201-207, XP002480489 the whole document	1–18
A	US 6 852 737 B2 (BONIFACIO FAUSTO [IT] ET AL) 8 February 2005 (2005-02-08) the whole document example 22	4-17

### INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2007/023086

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2006084628	A1	20-04-2006	NONE		<u>.</u>
US 2005244490	A1	03-11-2005	NONE	· · · · · · · · · · · · · · · · · · ·	
US 5725884	A	10-03-1998	AT AU AU BR CA DE DK EP ES FI HU JP NO PT WO US	239450 T 698667 B2 4759896 A 9605329 A 2183881 A1 69627934 D1 69627934 T2 752848 T3 0752848 A1 2199281 T3 963497 A 9602360 A2 116675 A 3300364 B2 10500426 T 963732 A 752848 T 9621429 A1 5585115 A	15-05-2003 05-11-1998 31-07-1996 16-09-1997 18-07-1996 12-06-2003 12-02-2004 01-09-2003 15-01-1997 16-02-2004 06-11-1996 28-08-1997 31-10-2000 08-07-2002 13-01-1998 08-11-1996 29-08-2003 18-07-1996 17-12-1996
US 6852737	B2	08-02-2005	US US US US	5725883 A 	10-03-1998 