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(12) (B1)

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C07H 1/00

(45)
(11)
(24)

2004 04 03
10-0426030
2004 03 24

(21) 10-2000-0042115
(22) 2000 07 22

(65)
(43)

10-2002-0008997
2002 02 01

(73) ()

373-1 KAIST

4106

(72)

126 608

316 304

105 306

506 1202

145-9204

205 605

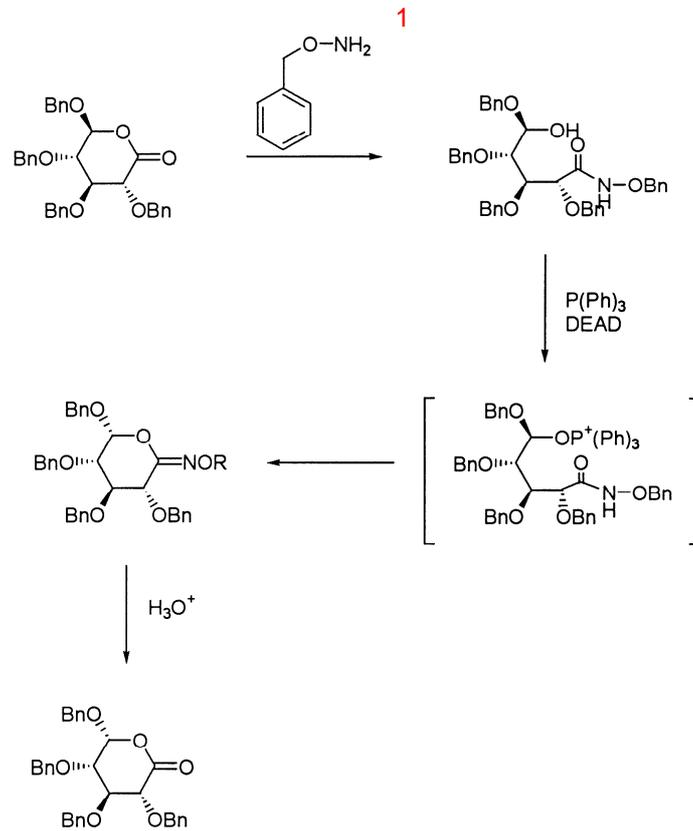
(74)

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(54)

1,5- (1,5-lactone)² 4 5 L- (L-Ribose), D- (D-Talose)
가 (1,4-lactone) (D-Talose)

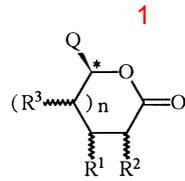
1,5- (1,5-lactone) 2 4 5 1,4- (1,4-lactone)
 L- (L-ribose) (rare sacharides) L- (L-Ribose), D- (D-Talose)
 가 , ,
 가 L- , L- 가
 , L- (Antiherpes) BW1263w94(Glaxo Wellcome) B
 L-FMAU(Bukwang Triangle) 가
 가 (: Nucleic acid Nucleo
 tide 18(2), 187(1999); JP 11/12294; WO 98/39347).
 L- (: WO 99/61648).
 1,4- 1,5- 4 5
 , ,
 1 5, 1,5-
 (Mitsunobu) 5
 (: J. Am. Chem. Soc., **122** , 2995(2000)):



DEAD 가
 , O-
 N- (lactam)

1,4- 1,5- 4 5
 L- D-
 2

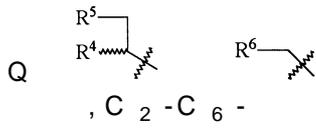
1 4 5
:



n 0, 1
R¹, R², R³

C₁-C₆-, C₂-C₆-

가



R⁴, R⁵

C₁-C₆-

, R⁶

C₁-C₆-, C₂-C₆-

1

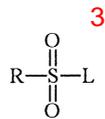
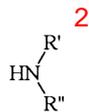
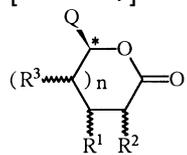
2 2
1

4

5

3

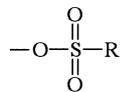
[1]



n, R¹, R², R³, Q
R', R''

C₁-C₆-

R 4- 7-
C₁-C₆-

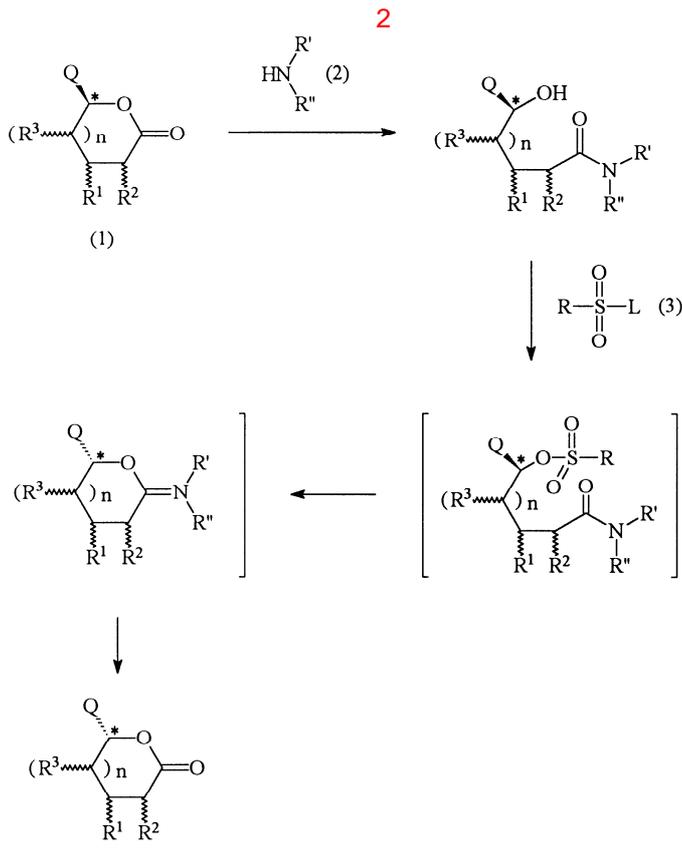


L

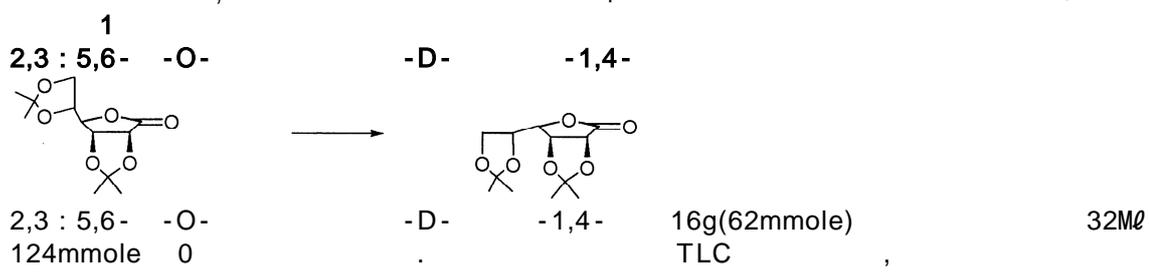
2 2

2 2 1 1
 2 (co-solvent) 가
 2

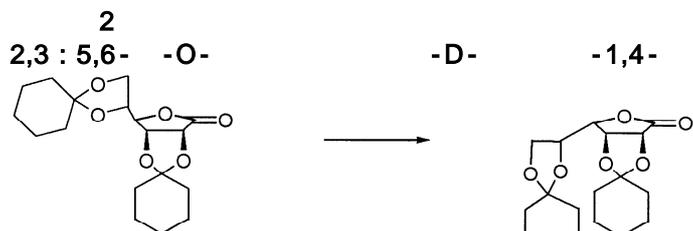
3 1 1 3 2
 3 3 3
 0 -5 30
 2



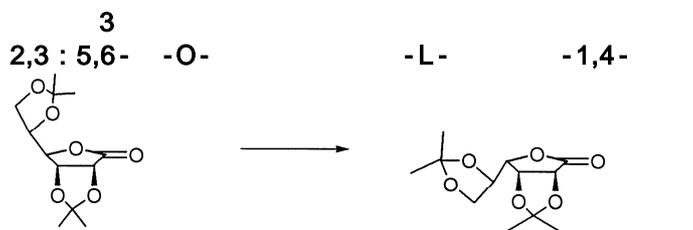
1 2 3
 4 5
 S R S
 85%
 R S
 L- , D-
 가



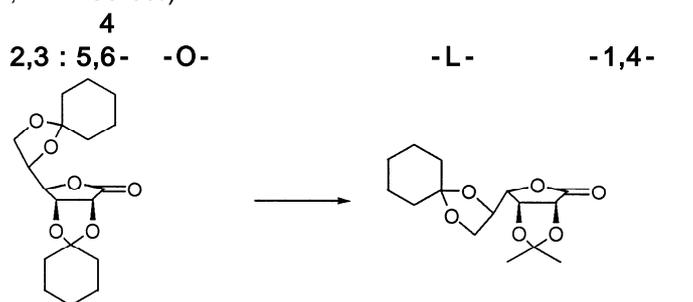
Me 100mg 100Mℓ 가 9.6Mℓ(124mmole) 0 (Et₃N) 13.8
 TLC (: / =3/1, v/v) (13.6g, 85.0%)



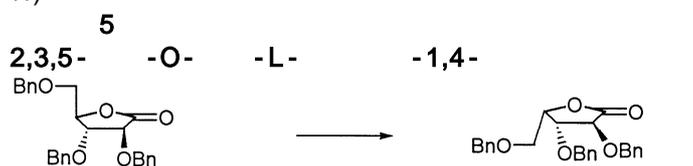
2,3 : 5,6- -O- -D- -1,4- 10g(30mmole) 32Mℓ
 60mmole 0 TLC (Et₃N) 6.6
 Me 50mg 100Mℓ 가 4.6Mℓ(60mmole) 0
 TLC (: / =4/1, v/v) (8.7g, 87.2%)



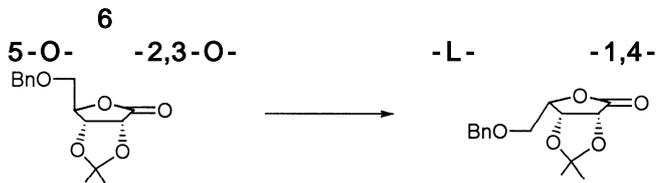
2,3 : 5,6- -O- -L- -1,4- 13.3g(51mmole) 27Mℓ
 102mmole 0 TLC (Et₃N) 11.5Mℓ
 (Et₃N) 11.5Mℓ 100mg 가 7.9Mℓ(102mmole) 0
 TLC (: / =3/1, v/v) (11.3g, 85.0%)



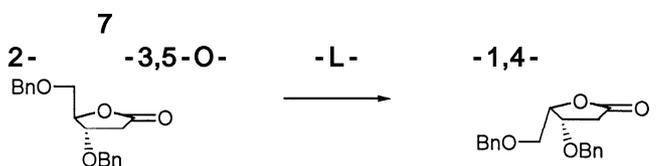
2,3 : 5,6- -O- -L- -1,4- 12.3g(36.4mmole) 38Mℓ
 73mmole 0 TLC (Et₃N)
 Me 100mg 120Mℓ 가 5.6Mℓ(72mmole) 0
 TLC (: / =4/1, v/v) (10.5g, 86.0%)



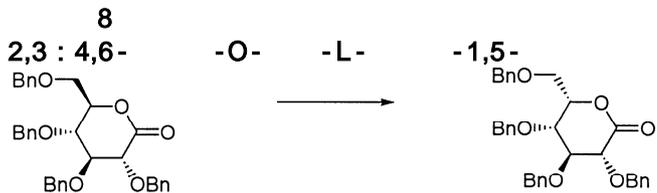
2,3,5-ole 0 -O- -D- -1,4- 10g(23.9mmole) 20Mℓ 48mm
 TLC 50mg 가 50Mℓ 가 3.7Mℓ(47.6 mmole) 0 (Et₃N) 5.3Mℓ
 TLC : / =4/1, v/v) (8.5g, 85.0%) (



5-O- -2,3-O- -D- -1,4- 10g(36.0mmole) 20Mℓ
 72mmole 0 TLC (Et₃N)
 8Mℓ 50mg 가 70Mℓ 가 5.6Mℓ(72mmole) 0
 TLC : / =4/1, v/v) (8.6g, 86.0%)



2- -3,5-O- -D- -1,4- 10g(32mmole) 20Mℓ 64m
 mole 0 TLC (Et₃N) 7.1Mℓ
 50mg 가 50Mℓ 가 5.0Mℓ(64 mmole) 0
 TLC : / =4/1, v/v) (8.7g, 87.0%) (

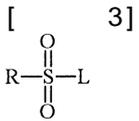
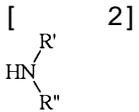
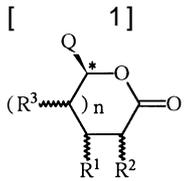


2,3 : 4,6- -O- -D- -1,4- 10g(18.5mmole) 20Mℓ 37
 mmole 0 TLC (Et₃N) 4.2Mℓ
 50mg 가 30Mℓ 가 2.9Mℓ(37mmole) 0
 TLC : / =4/1, v/v) (8.8g, 88.0%) (

L- 1 4 5
 D-

(57)

1. 1 2 2 3
 1 4 5



n 0 1 ,
 R¹, R² R³ , C₁-C₆- , C₂-C₆- ,
 , 가

Q , R⁴ R⁵ , C₁-C₆-
 , C₂-C₆- , R⁶ C₁-C₆- , C₂-C₆- ,

R' R'' C₁-C₆- ,
 R 4- 7-
 C₁-C₆- ,
 L -O-S(=O)-R

2. 가 1
3. 1 2 2
4. 1 3
5. 1 4
6. 1 -5 30