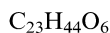
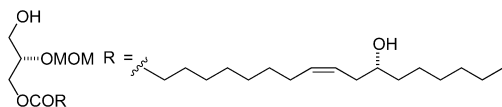


Stereochemistry abstracts

Iwao Hachiya, Yoshihumi Sugiura, Hiromasa Araki, Osamu Inaoka, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 18 (2007) 915



(9Z,2'S,12R)-3'-Hydroxy-2'-(methoxymethoxy)propyl 12-hydroxyoctadec-9-enoate

De = 94%

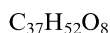
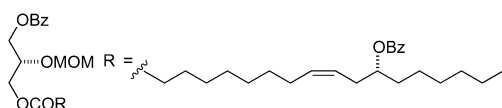
$[\alpha]_D^{21} = +8.2$ (c 0.093, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: (2'S,12R)

Iwao Hachiya, Yoshihumi Sugiura, Hiromasa Araki, Osamu Inaoka, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 18 (2007) 915



(9Z,2'R,12R)-3'-Benzoyloxy-2'-(methoxymethoxy)propyl 12-benzoyloxyoctadec-9-enoate

De = 94%

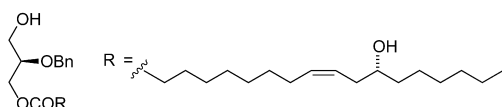
$[\alpha]_D^{20} = +14.6$ (c 0.091, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: (2'R,12R)

Iwao Hachiya, Yoshihumi Sugiura, Hiromasa Araki, Osamu Inaoka, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 18 (2007) 915



(9Z,2'R,12R)-2'-Benzyloxy-3'-hydroxypropyl 12-hydroxyoctadec-9-enoate

De = 96%

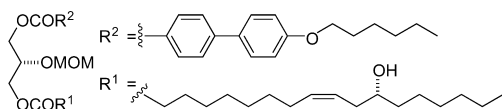
$[\alpha]_D^{24} = -8.5$ (c 0.218, $CHCl_3$)

Source of chirality: enzymatic transesterification

Absolute configuration: (2'R,12R)

Iwao Hachiya, Yoshihumi Sugiura, Hiromasa Araki, Osamu Inaoka, Makoto Shimizu,* Masatsugu Akita and Takashi Hamaguchi

Tetrahedron: Asymmetry 18 (2007) 915



(9Z,2'R,12R)-3'-4-(4-hexyloxyloxyphenyl)benzoyl-2'-(methoxymethoxy)propyl 12-hydroxyoctadec-9-enoate

De = 94%

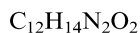
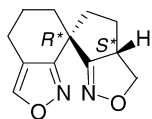
$[\alpha]_D^{26} = +0.91$ (c 0.29, $CHCl_3$)

Source of chirality: enzymatic hydrolysis

Absolute configuration: (2'R,12R)

Priti S. Koranne, Tetsuya Tsujihara, Midori A. Arai, Gan B. Bajracharya,
Takeyuki Suzuki, Kiyotaka Onitsuka and Hiroaki Sasai*

Tetrahedron: Asymmetry 18 (2007) 919



(*R^**,*S^**)-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

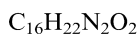
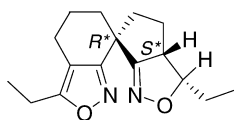
Ee = >99%

$[\alpha]_D^{29} = -134$ (c 0.11, $CHCl_3$)

Relative configuration: (*R^**,*S^**)

Priti S. Koranne, Tetsuya Tsujihara, Midori A. Arai, Gan B. Bajracharya,
Takeyuki Suzuki, Kiyotaka Onitsuka and Hiroaki Sasai*

Tetrahedron: Asymmetry 18 (2007) 919



(*R^**,*S^**)-3,3'-Diethyl-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

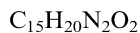
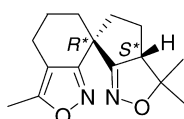
Ee = >99%

$[\alpha]_D^{29} = -186$ (c 0.10, $CHCl_3$)

Relative configuration: (*R^**,*S^**)

Priti S. Koranne, Tetsuya Tsujihara, Midori A. Arai, Gan B. Bajracharya,
Takeyuki Suzuki, Kiyotaka Onitsuka and Hiroaki Sasai*

Tetrahedron: Asymmetry 18 (2007) 919



(*R^**,*S^**)-3,3',3'-Trimethyl-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

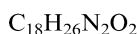
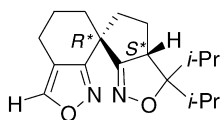
Ee = >99%

$[\alpha]_D^{29} = -202$ (c 0.10, $CHCl_3$)

Relative configuration: (*R^**,*S^**)

Priti S. Koranne, Tetsuya Tsujihara, Midori A. Arai, Gan B. Bajracharya,
Takeyuki Suzuki, Kiyotaka Onitsuka and Hiroaki Sasai*

Tetrahedron: Asymmetry 18 (2007) 919



(*R^**,*S^**)-3',3'-Diisopropyl-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

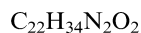
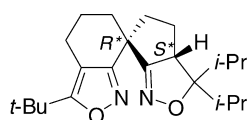
Ee = >99%

$[\alpha]_D^{29} = -178$ (c 0.11, $CHCl_3$)

Relative configuration: (*R^**,*S^**)

Priti S. Koranne, Tetsuya Tsujihara, Midori A. Arai, Gan B. Bajracharya, Takeyuki Suzuki, Kiyotaka Onitsuka and Hiroaki Sasai*

Tetrahedron: Asymmetry 18 (2007) 919



(*R*^{*},*S*^{*})-3-*tert*-Butyl-3',3'-diisopropyl-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

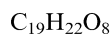
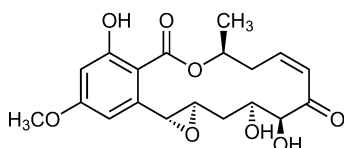
$E_e = >99\%$

$[\alpha]_D^{29} = -114$ (*c* 0.10, $CHCl_3$)

Relative configuration: (*R*^{*},*S*^{*})

Hidayat Hussain, Karsten Krohn,* Ulrich Flörke, Barbara Schulz, Siegfried Draeger, Gennaro Pescitelli, Piero Salvadori, Sándor Antus and Tibor Kurtán

Tetrahedron: Asymmetry 18 (2007) 925

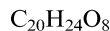
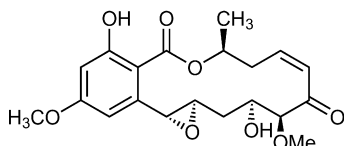


Hypothemycin

$[\alpha]_D^{20} = +18$ (*c* 0.50, $CHCl_3$)

Hidayat Hussain, Karsten Krohn,* Ulrich Flörke, Barbara Schulz, Siegfried Draeger, Gennaro Pescitelli, Piero Salvadori, Sándor Antus and Tibor Kurtán

Tetrahedron: Asymmetry 18 (2007) 925

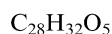
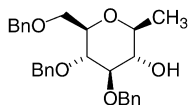


5'-*O*-Methylhypothemycin 2

$[\alpha]_D^{20} = +21.0$ (*c* 0.50, $CHCl_3$, 5% CH_3OH)

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



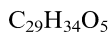
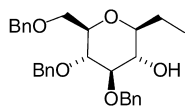
2,6-Anhydro-4,5,7-tri-*O*-benzyl-1-deoxy-*D*-glycero-*D*-gulo-heptitol

$[\alpha]_D = +42.9$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



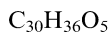
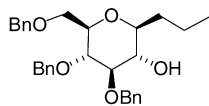
3,7-Anhydro-5,6,8-tri-*O*-benzyl-1,2-dideoxy-*D*-glycero-*D*-gulo-octitol

$[\alpha]_D = +35.8$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



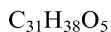
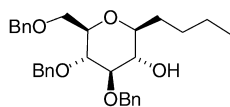
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = +30.2$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



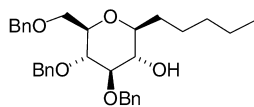
5,9-Anhydro-7,8,10-tri-*O*-benzyl-1,2,3,4-tetradecoxy-*D*-glycero-*D*-gulo-decitol

$[\alpha]_D = +29.0$ (*c* 1.0, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



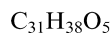
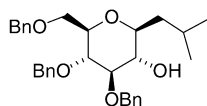
6,10-Anhydro-8,9,11-tri-*O*-benzyl-1,2,3,4,5-pentadeoxy-*D*-glycero-*D*-gulo-undecitol

$[\alpha]_D = +24.8$ (*c* 1.0, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



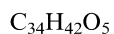
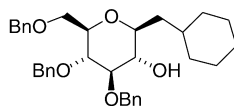
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-2-methyl-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = +18.2$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



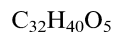
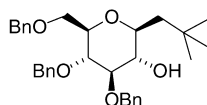
2,6-Anhydro-4,5,7-tri-*O*-benzyl-1-cyclohexyl-1-deoxy-*D*-glycero-*D*-gulo-heptitol

$[\alpha]_D = +22.3$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



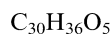
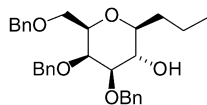
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-2,2-dimethyl-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = +18.1$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



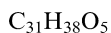
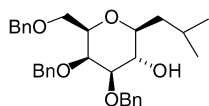
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-*D*-glycero-*L*-manno-nonitol

$[\alpha]_D = +152.7$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-galactal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



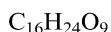
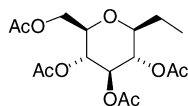
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-2-methyl-*D*-glycero-*L*-manno-nonitol

$[\alpha]_D = +155.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: *D*-(+)-galactal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



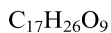
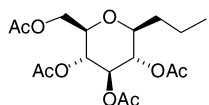
4,5,6,8-Tetra-*O*-acetyl-3,7-anhydro-1,2-dideoxy-*D*-glycero-*D*-gulo-octitol

$[\alpha]_D = -8.7$ (*c* 0.5, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



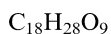
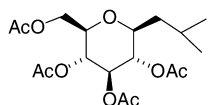
5,6,7,9-Tetra-*O*-acetyl-4,8-anhydro-1,2,3-trideoxy-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = -13.0$ (*c* 0.7, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



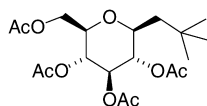
5,6,7,9-Tetra-*O*-acetyl-4,8-anhydro-2-methyl-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = -14.5$ (*c* 0.5, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



$C_{19}H_{30}O_9$

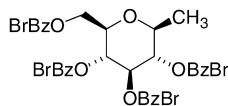
5,6,7,9-Tetra-*O*-acetyl-4,8-anhydro-1,2,3-trideoxy-2,2-dimethyl-*D*-glycero-*D*-gulo-nonitol

$[\alpha]_D = -7.8$ (*c* 0.4, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



$C_{35}H_{26}Br_4O_9$

2,6-Anhydro-3,4,5,7-tetra-*O*-(*p*-bromobenzoyl)-1-deoxy-*D*-glycero-*D*-gulo-heptitol

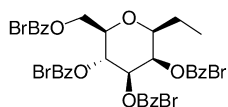
$[\alpha]_D = +50.0$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (22.4), 234 nm (-6.5)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



$C_{36}H_{28}Br_4O_9$

3,7-Anhydro-4,5,6,8-tetra-*O*-(*p*-bromobenzoyl)-1,2-dideoxy-*D*-glycero-*D*-gulo-octitol

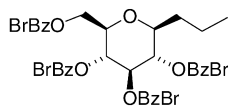
$[\alpha]_D = +42.8$ (*c* 1.4, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (21.0), 234 nm (-6.0)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



$C_{37}H_{30}Br_4O_9$

4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-1,2,3-trideoxy-*D*-glycero-*D*-gulo-nonitol

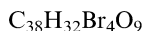
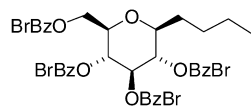
$[\alpha]_D = +37.7$ (*c* 1.0, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (18.8), 234 nm (-6.3)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



5,9-Anhydro-6,7,8,10-tetra-*O*-(*p*-bromobenzoyl)-1,2,3,4-tetra-deoxy-*D*-glycero-*D*-gulo-decitol

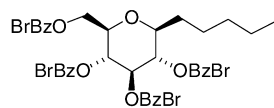
$[\alpha]_D = +33.2$ (*c* 1.0, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (17.6), 234 nm (−5.9)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



6,10-Anhydro-7,8,9,11-tetra-*O*-(*p*-bromobenzoyl)-1,2,3,4,5-pentadeoxy-*D*-glycero-*D*-gulo-undecitol

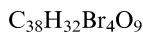
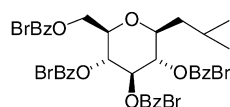
$[\alpha]_D = +34.2$ (*c* 1.2, $CHCl_3$)

CD(CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (17.4), 234 nm (−6.0)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-2-methyl-*D*-glycero-*D*-gulo-nonitol

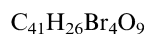
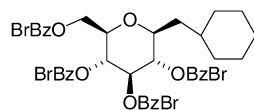
$[\alpha]_D = +28.9$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (16.7), 234 nm (−5.2)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



2,6-Anhydro-3,4,5,7-tetra-*O*-(*p*-bromobenzoyl)-1-cyclohexyl-1-deoxy-*D*-glycero-*D*-gulo-heptitol

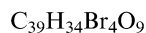
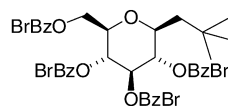
$[\alpha]_D = +22.1$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (12.2), 234 nm (−3.8)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-1,2,3-trideoxy-2,2-dimethyl-*D*-glycero-*D*-gulo-nonitol

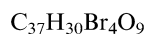
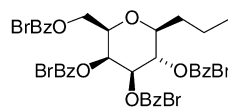
$[\alpha]_D = +14.7$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (10.6), 234 nm (-3.7)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-1,2,3-trideoxy-*D*-glycero-*L*-manno-nonitol

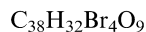
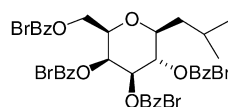
$[\alpha]_D = +152.7$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (66.9), 234 nm (-23.5)

Source of chirality: *D*-(+)-galactal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-2-methyl-*D*-glycero-*L*-manno-nonitol

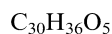
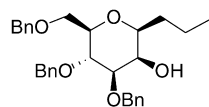
$[\alpha]_D = +155.1$ (*c* 1.0, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (70.4), 234 nm (-25.7)

Source of chirality: *D*-(+)-galactal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



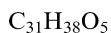
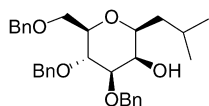
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-*D*-glycero-*D*-galacto-nonitol

$[\alpha]_D = -165.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



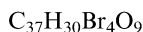
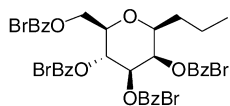
4,8-Anhydro-6,7,9-tri-*O*-benzyl-1,2,3-trideoxy-2-methyl-*D*-glycero-*D*-galacto-nonitol

$[\alpha]_D = -170.6$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-1,2,3-trideoxy-*D*-glycero-*D*-galacto-nonitol

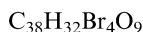
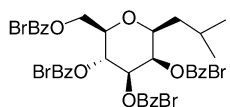
$[\alpha]_D = -165.3$ (*c* 1.0, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (-70.2), 234 nm (20.0)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



4,8-Anhydro-5,6,7,9-tetra-*O*-(*p*-bromobenzoyl)-2-methyl-*D*-glycero-*D*-galacto-nonitol

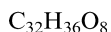
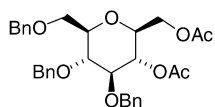
$[\alpha]_D = -170.6$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) λ_{ext} ($\Delta\epsilon$) 251 nm (-71.3), 234 nm (22.9)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



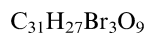
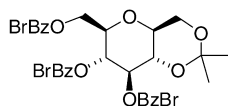
1,3-Di-*O*-acetyl-2,6-anhydro-4,5,7-tri-*O*-benzyl-*D*-glycero-*D*-gulo-heptitol

$[\alpha]_D = +19.9$ (*c* 1.1, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



2,6-Anhydro-4,5,7-penta-*O*-(*p*-bromobenzoyl)-1,3-*O*-iso-propylidene-*D*-glycero-*D*-gulo-heptitol

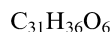
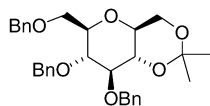
$[\alpha]_D = -33.0$ (*c* 1.2, $CHCl_3$)

CD (CH_3CN) $\Delta\epsilon$ 254 (−18.4), 237 nm (10.5)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



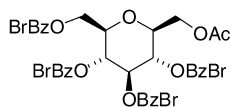
2,6-Anhydro-4,5,7-tri-*O*-benzyl-1,3-*O*-iso-propylidene-*D*-glycero-*D*-gulo-heptitol

$[\alpha]_D = +18.7$ (*c* 1.4, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



1-*O*-Acetyl-2,6-anhydro-3,4,5,7-tetra-*O*-(*p*-bromobenzoyl)-*D*-glycero-*D*-gulo-heptitol

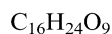
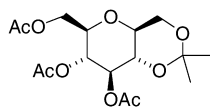
$[\alpha]_D = +32.9$ (*c* 1.1, $CHCl_3$)

CD (CH_3CN) $\Delta\epsilon$ 251 nm (20.9), 234 nm (−6.6)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



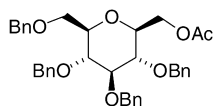
4,5,7-Tri-*O*-acetyl-2,6-anhydro-1,3-*O*-iso-propylidene-*D*-glycero-*D*-gulo-heptitol

$[\alpha]_D = +42.3$ (*c* 1.0, $CHCl_3$)

Source of chirality: *D*-(+)-glucal

Carlos Mayato, Rosa L. Dorta and Jesús T. Vázquez*

Tetrahedron: Asymmetry 18 (2007) 931



$C_{37}H_{40}O_7$

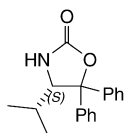
1-O-Acetyl-2,6-anhydro-3,4,5,7-tetra-O-benzyl-D-glycero-D-gulo-heptitol

$[\alpha]_D = -6.0$ (*c* 0.5, $CHCl_3$)

Source of chirality: D-(+)-glucal

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{18}H_{19}NO_2$

(S)-4-(1-Methylethyl)-5,5-diphenyl-2-oxazolidinone

Ee >99%

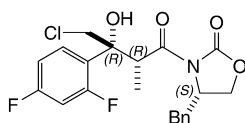
$[\alpha]_D^{25} = -255.2$ (*c* 0.2, $CHCl_3$)

Source of chirality: L-valine

Absolute configuration: (S)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{21}H_{20}ClF_2NO_4$

[3(2*R*,3*R*),4*S*]-4-Benzyl-3-[4-chloro-3-(2,4-difluorophenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

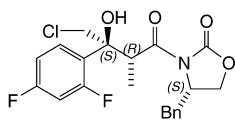
$[\alpha]_D^{25} = +9.9$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-phenylalanine

Absolute configuration: (R,R,S)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{21}H_{20}ClF_2NO_4$

[3(2*R*,3*S*),4*S*]-4-Benzyl-3-[4-chloro-3-(2,4-difluorophenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

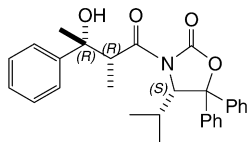
$[\alpha]_D^{25} = +32.8$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-phenylalanine

Absolute configuration: (S,R,S)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{29}H_{31}NO_4$

[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-(3-phenyl-3-hydroxy-2-methyl-1-oxobutyl)-2-oxazolidinone

De >98%

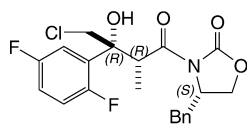
$[\alpha]_D^{25} = -127.3$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{21}H_{20}ClF_2NO_4$

[3(2*R*,3*R*),4*S*]-4-Benzyl-3-[4-chloro-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

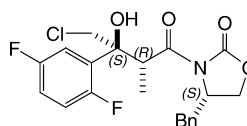
$[\alpha]_D^{25} = +7.7$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-phenylalanine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{21}H_{20}ClF_2NO_4$

[3(2*R*,3*S*),4*S*]-4-Benzyl-3-[4-chloro-3-(2,5-difluorophenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

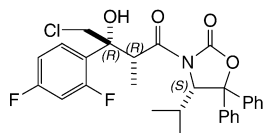
$[\alpha]_D^{25} = +41.4$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-phenylalanine

Absolute configuration: (*S,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



$C_{29}H_{28}ClF_2NO_4$

[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-[4-chloro-3-(2,4-difluorophenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

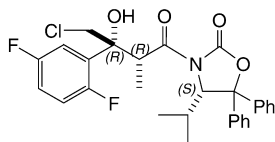
$[\alpha]_D^{25} = -110.7$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-[4-chloro-3-(2,5-difluorophenyl)]-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

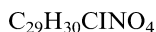
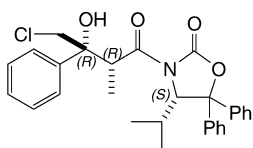
$[\alpha]_D^{25} = -109.1$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-(4-chloro-3-phenyl)-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

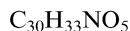
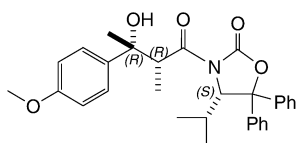
$[\alpha]_D^{25} = -112.5$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-[3-(4-methoxyphenyl)]-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

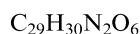
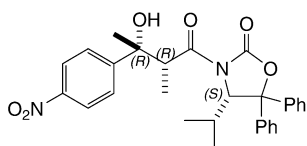
$[\alpha]_D^{25} = -124.2$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-[3-(4-nitrophenyl)]-3-hydroxy-2-methyl-1-oxobutyl]-2-oxazolidinone

De >98%

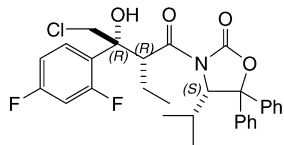
$[\alpha]_D^{25} = -101.4$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



[3(2*R*,3*R*),4*S*]-5,5-Diphenyl-4-isopropyl-3-[4-chloro-3-(2,4-difluorophenyl)-3-hydroxy-2-ethyl-1-oxobutyl]-2-oxazolidinone

De >98%

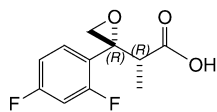
$[\alpha]_D^{25} = -148.6$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R,S*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



(2*R*,3*R*)-3-[3-(2,4-Difluorophenyl)-3,4-epoxy-2-methyl]butanoic acid

De >97%

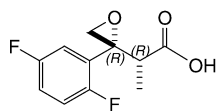
$[\alpha]_D^{25} = -42.7$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



(2*R*,3*R*)-3-[3-(2,5-Difluorophenyl)-3,4-epoxy-2-methyl]butanoic acid

De >97%

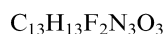
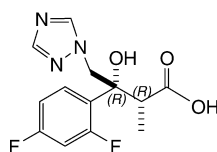
$[\alpha]_D^{25} = -41.5$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



(2*R*,3*R*)-3-[3-(2,4-Difluorophenyl)-3-hydroxy-2-methyl-3-(1*H*-1,2,4-triazol-1-yl)]butanoic acid

De >97%

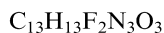
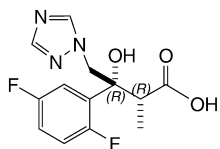
$[\alpha]_D^{25} = -52.4$ (*c* 1.0, CH_3OH)

Source of chirality: L-valine

Absolute configuration: (*R,R*)

Luo-Ting Yu, Meng-Tsung Ho, Ching-Yao Chang and Teng-Kuei Yang*

Tetrahedron: Asymmetry 18 (2007) 949



(2*R*,3*R*)-3-[3-(2,5-Difluorophenyl)-3-hydroxy-2-methyl-3-(1*H*-1,2,4-triazol-1-yl)]butanoic acid

De >97%

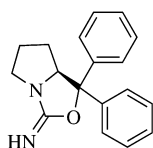
$[\alpha]_D^{25} = -43.1$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-valine

Absolute configuration: (*R,R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(5*S*)-1-Aza-2-imino-3-oxa-4,4-diphenylbicyclo(3.3.0)octane

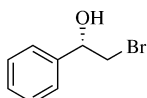
$[\alpha]_D^{25} = -221.9$ (*c* 1.14, $CHCl_3$)

Source of chirality: (*S*)-2-(diphenylhydroxy-methyl)pyrrolidine

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*S*)-2-Bromo-1-phenylethanol

Ee = 92%

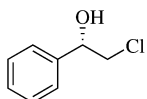
$[\alpha]_D^{25} = +40.1$ (*c* 1.8, $CHCl_3$)

Source of chirality: asymmetric reduction

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*S*)-2-Chloro-1-phenylethanol

Ee = 91%

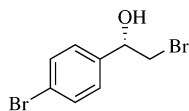
$[\alpha]_D^{25} = +44.7$ (*c* 1.1, C_6H_{12})

Source of chirality: asymmetric reduction

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*S*)-2-Bromo-1-(4-bromophenyl)ethanol

Ee = 92%

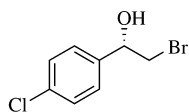
$[\alpha]_D^{25} = +31.9$ (c 1.2, $CHCl_3$)

Source of chirality: asymmetric reduction

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*S*)-2-Bromo-1-(4-chlorophenyl)ethanol

Ee = 93%

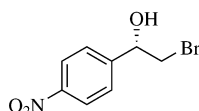
$[\alpha]_D^{25} = +39.3$ (c 1.0, $CHCl_3$)

Source of chirality: asymmetric reduction

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*S*)-2-Bromo-1-(4-nitrophenyl)ethanol

Ee = 88%

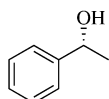
$[\alpha]_D^{25} = +32.3$ (c 1.3, $CHCl_3$)

Source of chirality: asymmetric reduction

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



(*R*)-1-Phenylethanol

Ee = 80%

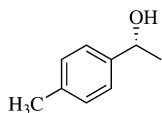
$[\alpha]_D^{25} = +35.5$ (c 1.2, MeOH)

Source of chirality: asymmetric reduction

Absolute configuration: (*R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



C₉H₁₂O

(*R*)-1-(4-Methylphenyl)ethanol

Ee = 70%

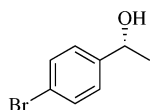
[α]_D²⁵ = +29.2 (*c* 1.5, MeOH)

Source of chirality: asymmetric reduction

Absolute configuration: (*R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



C₈H₉OBr

(*R*)-1-(4-Bromophenyl)ethanol

Ee = 73%

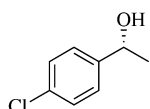
[α]_D²⁵ = +27.5 (*c* 1.1, CHCl₃)

Source of chirality: asymmetric reduction

Absolute configuration: (*R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



C₈H₉OCl

(*R*)-1-(4-Chlorophenyl)ethanol

Ee = 78%

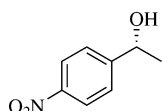
[α]_D²⁵ = +38.5 (*c* 1.3, Et₂O)

Source of chirality: asymmetric reduction

Absolute configuration: (*R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 963



C₈H₉NO₃

(*R*)-1-(4-Nitrophenyl)ethanol

Ee = 87%

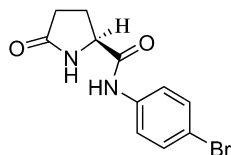
[α]_D²⁵ = +27.2 (*c* 1.2, EtOH)

Source of chirality: asymmetric reduction

Absolute configuration: (*R*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2S)-5-Oxo-2-(4-bromoanilino)carbonylpyrrolidine

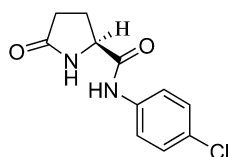
$$[\alpha]_D^{25} = +13.0 (c 1.09, \text{MeOH})$$

Source of chirality: (S)-pyroglutamic acid

Absolute configuration: (S)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2S)-5-Oxo-2-(4-chloroanilino)carbonylpyrrolidine

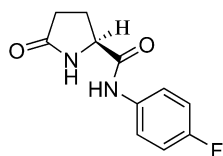
$$[\alpha]_D^{25} = +14.1 (c 1.04, \text{MeOH})$$

Source of chirality: (S)-pyroglutamic acid

Absolute configuration: (S)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2S)-5-Oxo-2-(4-fluoroanilino)carbonylpyrrolidine

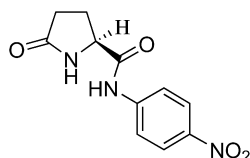
$$[\alpha]_D^{25} = +14.0 (c 1.08, \text{MeOH})$$

Source of chirality: (S)-pyroglutamic acid

Absolute configuration: (S)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2S)-5-Oxo-2-(4-nitroanilino)carbonylpyrrolidine

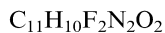
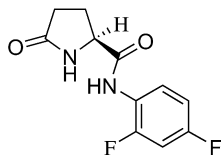
$$[\alpha]_D^{25} = +21.0 (c 0.60, \text{MeOH})$$

Source of chirality: (S)-pyroglutamic acid

Absolute configuration: (S)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2*S*)-5-Oxo-2-(2,4-difluoroanilino)carbonylpyrrolidine

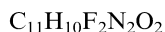
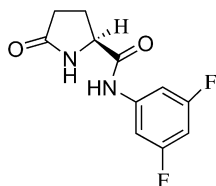
$$[\alpha]_D^{25} = +12.9 (c 1.02, \text{MeOH})$$

Source of chirality: (*S*)-pyroglutamic acid

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2*S*)-5-Oxo-2-(3,5-difluoroanilino)carbonylpyrrolidine

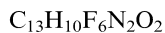
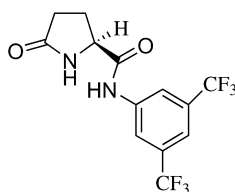
$$[\alpha]_D^{25} = +13.4 (c 1.08, \text{MeOH})$$

Source of chirality: (*S*)-pyroglutamic acid

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2*S*)-5-Oxo-2-[3,5-bis(trifluoromethyl)anilino]carbonylpyrrolidine

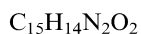
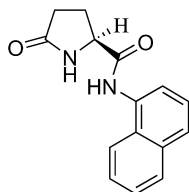
$$[\alpha]_D^{25} = +4.9 (c 2.09, \text{MeOH})$$

Source of chirality: (*S*)-pyroglutamic acid

Absolute configuration: (*S*)

Deevi Basavaiah,* Kalapala Venkateswara Rao and Bhavanam Sekhara Reddy

Tetrahedron: Asymmetry 18 (2007) 968



(2*S*)-5-Oxo-2-(1-naphthylamino)carbonylpyrrolidine

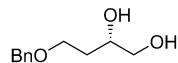
$$[\alpha]_D^{25} = +15.0 (c 1.09, \text{MeOH})$$

Source of chirality: (*S*)-pyroglutamic acid

Absolute configuration: (*S*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



(+)-(S)-4-(Benzyloxy)butane-1,2-diol

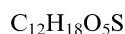
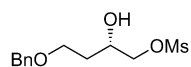
$$[\alpha]_D^{25} = +5.0 (c 1, CHCl_3)$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (S)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



(+)-(S)-4-(Benzyloxy)-2-hydroxybutyl methanesulfonate

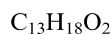
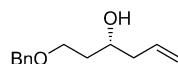
$$[\alpha]_D^{25} = +0.4 (c 0.5, CHCl_3)$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (S)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



(-)-(S)-4-(Benzyloxy)-1,2-epoxybutane

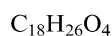
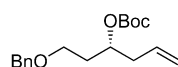
$$[\alpha]_D^{25} = +1.55 (c 1.1, CHCl_3)$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (S)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



tert-Butyl(*R*)-1-(benzyloxy)hex-5-en-3-yl carbonate

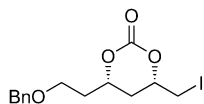
$$[\alpha]_D^{25} = +33.3 (c 0.6, CHCl_3)$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (*R*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



$C_{14}H_{17}IO_4$

(-)-(4*S*,6*S*)-4-[2-(Benzyloxy)ethyl]-6-(iodomethyl)-1,3-dioxan-2-one

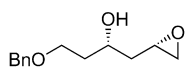
$[\alpha]_D^{25} = -3.1$ (*c* 1.3, $CHCl_3$)

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (4*S*,6*S*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



$C_{13}H_{18}O_3$

(+)-(2*S*,4*S*)-6-(Benzyloxy)-1,2-epoxyhexan-4-ol

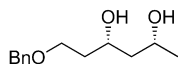
$[\alpha]_D^{25} = +8.0$ (*c* 1.25, $CHCl_3$)

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (1*S*,4*S*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



$C_{13}H_{20}O_3$

(+)-(2*R*,4*S*)-6-(Benzyloxy)hexane-2,4-diol

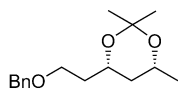
$[\alpha]_D^{25} = +3.0$ (*c* 1, $CHCl_3$)

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (2*R*,4*S*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



$C_{16}H_{24}O_3$

(+)-(4*S*,6*R*)-4-[2-(Benzyloxy)ethyl]-2,2,6-trimethyl-1,3-dioxane

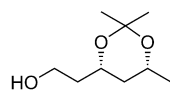
$[\alpha]_D^{25} = +4.0$ (*c* 0.5, $CHCl_3$)

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (4*S*,6*R*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



(-)-(4*S*,6*R*)-2-(2,2,6-Trimethyl-1,3-dioxan-4-yl)ethanol

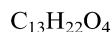
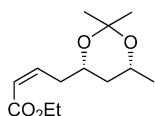
$$[\alpha]_D^{25} = -15 \text{ (} c \text{ 0.4, CHCl}_3\text{)}$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (4*S*,6*R*)

Shyla George and Arumugam Sudalai*

Tetrahedron: Asymmetry 18 (2007) 975



(-)-(5*S*,7*R*,2*Z*)-Ethyl-5,7-(isopropylidenedioxy)octenoate

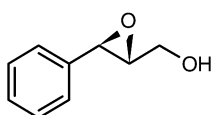
$$[\alpha]_D^{25} = -23.5 \text{ (} c \text{ 0.17, CHCl}_3\text{)}$$

Source of chirality: proline-catalyzed α -asymmetric aminooxylation

Absolute configuration: (5*S*,7*R*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*R*,3*R*)-(3-Phenyl-oxiranyl)-methanol

Ee >99%

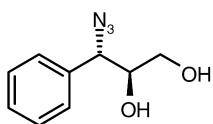
$$[\alpha]_D^{27} = +48.7 \text{ (} c \text{ 2.4, CHCl}_3\text{)}$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*R*,3*R*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*S*,3*S*)-3-Azido-3-phenyl-propane-1,2-diol

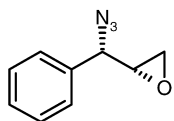
$$[\alpha]_D^{27} = +166.3 \text{ (} c \text{ 1.2, CHCl}_3\text{)}$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



C₉H₉N₃O

(2*R*,3*S*)-2-(Azido-phenyl-methyl)-oxirane

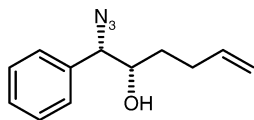
$[\alpha]_D^{27} = +139.0$ (*c* 1.1, CHCl₃)

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*R*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



C₁₂H₁₅N₃O

(1*S*,2*S*)-1-Azido-1-phenyl-hex-5-en-2-ol

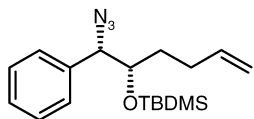
$[\alpha]_D^{27} = +178.4$ (*c* 1.0, CHCl₃)

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (1*S*,2*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



C₁₈H₂₉N₃OSi

(1*S*,2*S*)-[1-(Azido-phenyl-methyl)-pent-4-enyloxy]-*tert*-butyl-dimethyl-silane

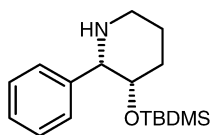
$[\alpha]_D^{27} = +75.3$ (*c* 1.1, CHCl₃)

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (1*S*,2*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



C₁₇H₂₉NOSi

(2*S*,3*S*)-3-(*tert*-Butyl-dimethyl-silyloxy)-2-phenyl-piperidine

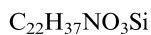
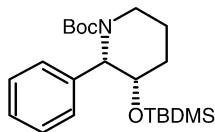
$[\alpha]_D^{27} = +51.5$ (*c* 1.1, MeOH)

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*S*,3*S*)-1-[3-(*tert*-Butyl-dimethyl-silyloxy)-2-phenyl-piperidin-1-yl]-2,2-dimethyl-propan-1-one

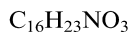
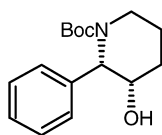
$$[\alpha]_D^{27} = +18.4 (c 1.1, CHCl_3)$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*S*,3*S*)-1-(3-Hydroxy-2-phenyl-piperidin-1-yl)-2,2-dimethyl-propan-1-one

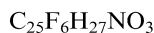
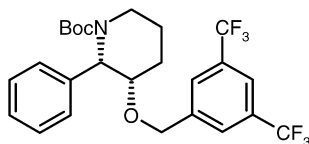
$$[\alpha]_D^{27} = +37.5 (c 1.0, CHCl_3)$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*S*,3*S*)-1-(*tert*-Butyloxycarbonyl)-2-phenyl-3-[(3,5)-bis(trifluoromethyl)benzyloxy]piperidine

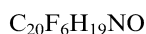
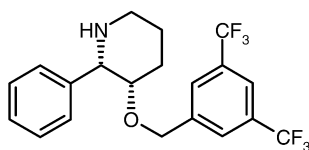
$$[\alpha]_D^{25} = +31.4 (c 1.0, CHCl_3)$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Shijo K. Cherian and Pradeep Kumar*

Tetrahedron: Asymmetry 18 (2007) 982



(2*S*,3*S*)-2-Phenyl-3-[(3,5)-bis(trifluoromethyl)benzyloxy]piperidine [(+)-L-733,060]

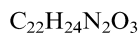
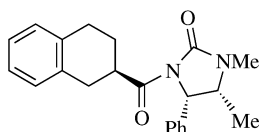
$$[\alpha]_D^{25} = +36.2 (c 0.66, CHCl_3)$$

Source of chirality: Sharpless asymmetric epoxidation

Absolute configuration: (2*S*,3*S*)

Naoki Kise* and Ryouzuke Mimura

Tetrahedron: Asymmetry 18 (2007) 988



(4*S*,5*R*)-1,5-Dimethyl-4-phenyl-3-((*R*)-1,2,3,4-tetrahydronaphthalene-2-carbonyl)imidazolidin-2-one

Ee >99%

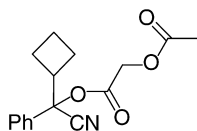
$[\alpha]_D^{20} = -41.2$ (*c* 1.05, $CHCl_3$)

Source of chirality: (1*S*,2*R*)-(+)-norephedrine

Absolute configuration: (4*S*,5*R*,2'*R*)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



(+)-1-(1-Cyano-1-cyclobutyl-1-phenylmethoxy)carbonylmethyl acetate

Ee = 70%

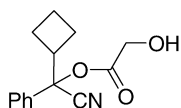
$[\alpha]_D^{20} = +39$ (*c* 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed hydrolysis

Absolute configuration: (*R*)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



(-)-1-(1-Cyano-1-cyclobutyl-1-phenylmethyl) hydroxyacetate

Ee = 99%

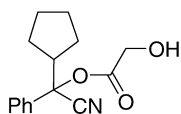
$[\alpha]_D^{20} = -49$ (*c* 0.12, $CHCl_3$)

Source of chirality: lipase-catalyzed hydrolysis

Absolute configuration: (*S*)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



(+)-1-(1-Cyano-1-cyclopentyl-1-phenylmethyl) hydroxyacetate

Ee = 66%

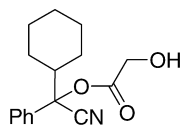
$[\alpha]_D^{20} = +13$ (*c* 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (*S*)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{16}H_{19}NO_3$

(+)-1-Cyano-1-cyclohexyl-1-phenylmethyl hydroxyacetate

Ee = 83%

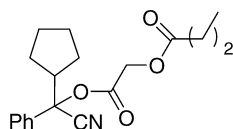
$[\alpha]_D^{20} = +7.5$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (S)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{19}H_{23}NO_4$

(-)-(1-Cyano-1-cyclopentyl-1-phenylmethoxy)carbonylmethyl butyrate

Ee = 64%

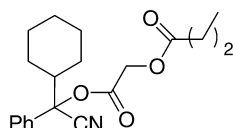
$[\alpha]_D^{20} = -5$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{20}H_{25}NO_4$

(-)-(1-Cyano-1-cyclohexyl-1-phenylmethoxy)carbonylmethyl butyrate

Ee = 90%

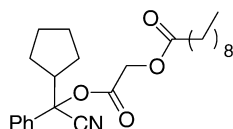
$[\alpha]_D^{20} = -6$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{25}H_{35}NO_4$

(-)-(1-Cyano-1-cyclopentyl-1-phenylmethoxy)carbonylmethyl decanoate

Ee = 92%

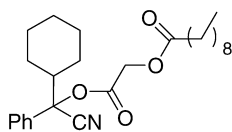
$[\alpha]_D^{20} = -26$ (c 0.15, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{26}H_{37}NO_4$

(-)-(1-Cyano-1-cyclohexyl-1-phenylmethoxy)carbonylmethyl decanoate

Ee = 72%

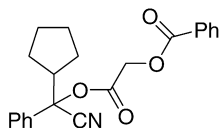
$[\alpha]_D^{20} = -7$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{22}H_{21}NO_4$

(-)-(1-Cyano-1-cyclopentyl-1-phenylmethoxy)carbonylmethyl benzoate

Ee = 70%

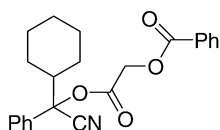
$[\alpha]_D^{20} = -6$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Verónica Recuero, Miguel Ferrero, Vicente Gotor-Fernández,
Rosario Brieva and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 994



$C_{23}H_{23}NO_4$

(-)-(1-Cyano-1-cyclohexyl-1-phenylmethoxy)carbonylmethyl benzoate

Ee = 96%

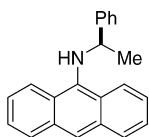
$[\alpha]_D^{20} = -12$ (c 0.10, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (R)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



$C_{22}H_{19}N$

(R)-9-(N-α-Methylbenzylamino)anthracene

Ee = 93%

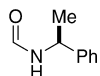
$[\alpha]_D = +198$ (c 0.5, $CHCl_3$)

Source of chirality: commercial (R)-α-methyl benzylamine

Absolute configuration: (R)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



C₉H₁₁NO

(*R*)-(+)- α -Methylbenzyl formamide

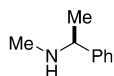
$[\alpha]_D = +168.6$ (*c* 1, CHCl₃)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (*R*)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



C₉H₁₃N

(*R*)-(+)-*N*-Methyl- α -methylbenzylamine

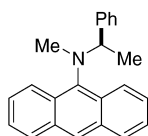
$[\alpha]_D = +77.7$ (*c* 1, CHCl₃)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (*R*)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



C₂₃H₂₁N

9-[*N*-Methyl-*N*-(*R*)- α -methylbenzylamino]anthracene

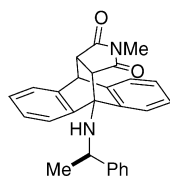
$[\alpha]_D = +70$ (*c* 1, CHCl₃)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (*R*)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



C₂₇H₂₄N₂O₂

(3*aS*,9*aS*)-3*a*,4,9,9*a*-Tetrahydro-4-[(*R*)- α -methylbenzylamino]-2-methyl-4,9-[1',2']benzo-1*H*-benzo[*f*]isoindole-1,3-(2*H*)-dione

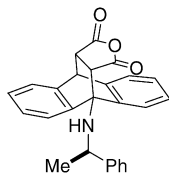
$[\alpha]_D = +50$ (*c* 0.5, CHCl₃)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (3*S*,9*S*, α *R*)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



$C_{26}H_{21}NO_3$

(11*S*,15*S*)-9,10,11,15-Tetrahydro-9-[(*R*)- α -methylbenzylamino]-9,10[3',4']-furanoanthracene-12,14-dione

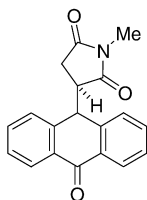
$[\alpha]_D = +26$ (*c* 1, $CHCl_3$)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (3*S*,9*S*, α *R*)

Harry Adams, Ramadan A. Bawa, Keith G. McMillan and Simon Jones*

Tetrahedron: Asymmetry 18 (2007) 1003



$C_{19}H_{15}NO_3$

1-Methyl-(3*R*)-(10-oxo-9,10-dihydroanthracen-9-yl) pyrrolidine-2,5-dione

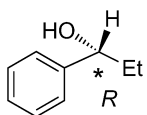
$[\alpha]_D = +125$ (*c* 0.08, $CHCl_3$)

Source of chirality: commercial (*R*)- α -methyl benzylamine

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı IZGÜ and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



$C_9H_{12}O$

(*R*)-1-Phenyl-1-propanol

Ee = 96%

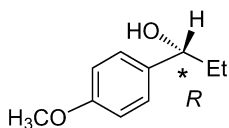
$[\alpha]_D^{20} = +30.2$ (*c* 2.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı IZGÜ and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



$C_{10}H_{14}O_2$

(*R*)-1-(4-Methoxyphenyl)-1-propanol

Ee = 90%

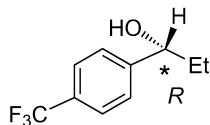
$[\alpha]_D^{20} = +34.0$ (*c* 2.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



(*R*)-1-(4-Trifluoromethylphenyl)-1-propanol

Ee = 98%

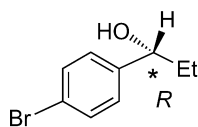
$[\alpha]_D^{20} = +18.6$ (c 3.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



(*R*)-1-(4-Bromophenyl)-1-propanol

Ee = 98%

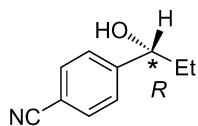
$[\alpha]_D^{20} = +26.7$ (c 1.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



(*R*)-1-(4-Cyanophenyl)-1-propanol

Ee = 93%

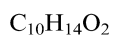
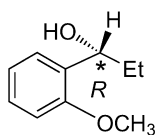
$[\alpha]_D^{20} = +31.6$ (c 0.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



(*R*)-1-(2-Methoxyphenyl)-1-propanol

Ee = 86%

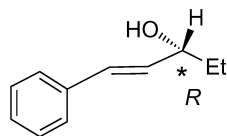
$[\alpha]_D^{20} = +17.6$ (c 4.1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



$C_{11}H_{14}O$

(*R*)-1-Phenyl-1-penten-3-ol

Ee = 84%

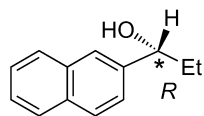
$[\alpha]_D^{20} = +4.3$ (*c* 2.1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



$C_{13}H_{14}O$

(*R*)-1-(2-Naphthyl)-1-propanol

Ee = 92%

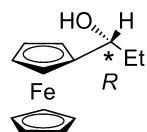
$[\alpha]_D^{20} = +35.1$ (*c* 2.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Adnan Bulut, Ayhan Aslan, Enver Çağrı Izgü and Özdemir Dogan*

Tetrahedron: Asymmetry 18 (2007) 1013



$C_{13}H_{16}FeO$

(*R*)-1-Ferrocenyl-1-propanol

Ee = 98%

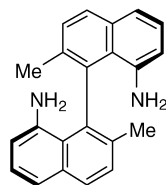
$[\alpha]_D^{20} = -66.5$ (*c* 4.9, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Kazunori Tsubaki,* Dinh T. T. Hai, Valluru K. Reddy, Hiroshi Ohnishi, Kaoru Fuji and Takeo Kawabata

Tetrahedron: Asymmetry 18 (2007) 1017



$C_{22}H_{20}N_2$

(*S*)-2,2'-Dimethyl-1,1'-binaphthyl-8,8'-diamine

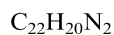
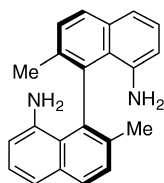
$[\alpha]_D^{20} = -43$ (*c* 0.5, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*S*)

Kazunori Tsubaki,* Dinh T. T. Hai, Valluru K. Reddy, Hiroshi Ohnishi,
Kaoru Fuji and Takeo Kawabata

Tetrahedron: Asymmetry 18 (2007) 1017



(*R*)-2,2'-Dimethyl-1,1'-binaphthyl-8,8'-diamine

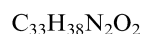
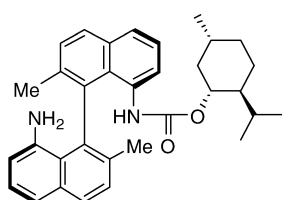
$[\alpha]_D^{20} = +43$ (*c* 0.50, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)

Kazunori Tsubaki,* Dinh T. T. Hai, Valluru K. Reddy, Hiroshi Ohnishi,
Kaoru Fuji and Takeo Kawabata

Tetrahedron: Asymmetry 18 (2007) 1017



(1*R*,2*S*,5*R*)-2-Isopropyl-5-methylcyclohexyl (*S*)-8'-amino-2,2'-dimethyl-1,1'-binaphthyl-8-ylcarbamate

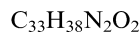
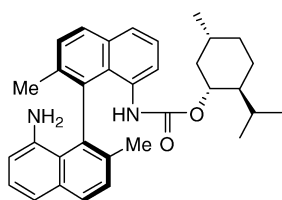
$[\alpha]_D^{20} = -103$ (*c* 0.5, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (1*R*,2*S*,5*R*)

Kazunori Tsubaki,* Dinh T. T. Hai, Valluru K. Reddy, Hiroshi Ohnishi,
Kaoru Fuji and Takeo Kawabata

Tetrahedron: Asymmetry 18 (2007) 1017



(1*R*,2*S*,5*R*)-2-Isopropyl-5-methylcyclohexyl (*R*)-8'-amino-2,2'-dimethyl-1,1'-binaphthyl-8-ylcarbamate

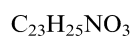
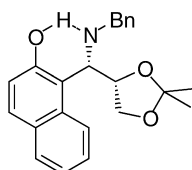
$[\alpha]_D^{20} = -109$ (*c* 0.9, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (1*R*,2*S*,5*R*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



1-((*S*)-Benzylamino[(4*S*)-2,2-dimethyl-1,3-dioxolan-4-yl]methyl)-2-naphthol

Ee = 98%

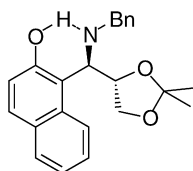
$[\alpha]_D^{20} = -26.2$ (*c* 0.38, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{23}H_{25}NO_3$

1-((*R*)-Benzylamino[(4*S*)-2,2-dimethyl-1,3-dioxolan-4-yl]methyl)-2-naphthol

Ee = 98%

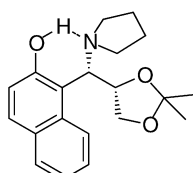
$[\alpha]_D^{20} = -12.9$ (*c* 0.39, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,4*S*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{20}H_{25}NO_3$

1-((*S*)-(4*S*)-2,2-Dimethyl-1,3-dioxolan-4-yl)pyrrolidin-1-ylmethyl)-2-naphthol

Ee = 98%

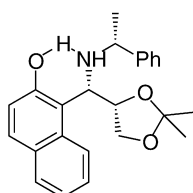
$[\alpha]_D^{20} = +0.6$ (*c* 0.49, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{24}H_{27}NO_3$

1-((*S*)-(4*S*)-2,2-Dimethyl-1,3-dioxolan-4-yl){[(1*R*)-1-phenylethyl]amino}methyl)-2-naphthol

Ee = 98%

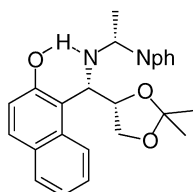
$[\alpha]_D^{20} = -44.5$ (*c* 0.74, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*S*,1'*R*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{28}H_{29}NO_3$

1-((*S*)-(1*R*)-1-(1-Naphthyl)ethan-1-amine[(4*S*)-2,2-dimethyl-1,3-dioxolan-4-yl]methyl)-2-naphthol

Ee = 98%

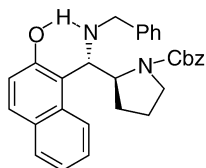
$[\alpha]_D^{20} = -111.9$ (*c* 1.15, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*S*,1'*R*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{30}H_{30}N_2O_3$

Benzyl (2*S*)-2-[(*S*)-benzylamino(2-hydroxy-1-naphthyl)methyl]pyrrolidine-1-carboxylate

Ee = 98%

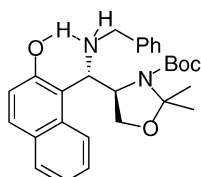
$[\alpha]_D^{20} = -15.8$ (*c* 3.65, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{28}H_{34}N_2O_4$

tert-Butyl (4*R*)-4-[(*S*)-benzylamino(2-hydroxy-1-naphthyl)methyl]-2,2-dimethyl-1,3-oxazolidine-3-carboxylate

Ee = 98%

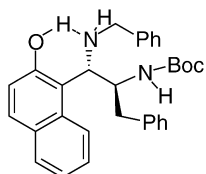
$[\alpha]_D^{20} = +3.5$ (*c* 1.44, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1'*S*,4*R*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{31}H_{34}N_2O_3$

tert-Butyl-*N*-[(*S,S*)-1-benzyl-2-(benzylamino)-2-(2-hydroxy-1-naphthyl)ethyl]carbamate

Ee = 98%

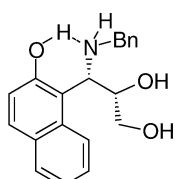
$[\alpha]_D^{20} = +3.75$ (*c* 2.21, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{20}H_{21}NO_3$

(2*S*,3*S*)-3-(Benzylamino)-3-(2-hydroxy-1-naphthyl)propane-1,2-diol

Ee = 98%

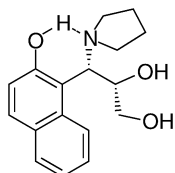
$[\alpha]_D^{20} = -0.9$ (*c* 0.64, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarrelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{17}H_{21}NO_3$

(*S,S*)-3-(2-Hydroxy-1-naphthyl)-3-pyrrolidin-1-ylpropane-1,2-diol

Ee = 98%

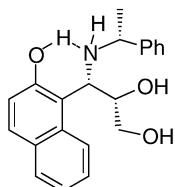
$[\alpha]_D^{20} = -0.8$ (c 0.91, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarrelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{21}H_{23}NO_3$

(*S,S*)-3-(2-Hydroxy-1-naphthyl)-3-[(1'*R*)-1'-phenylethylamino]propane-1,2-diol

Ee = 98%

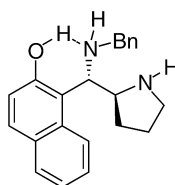
$[\alpha]_D^{20} = -0.8$ (c 1.5, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*2S,3S,1'R*)

Leonardo Cappannini, Cristina Cimarrelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{22}H_{24}N_2O$

1-[(*S*)-(Benzylamino)][(*2S*)pyrrolidin-2-yl]methyl]-2-naphthol

Ee = 98%

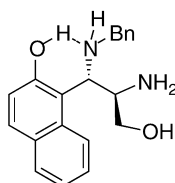
$[\alpha]_D^{20} = +2.7$ (c 1.30, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimarrelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{20}H_{22}N_2O_2$

1-[(*1S,2R*)-2-Amino-1-(benzylamino)-3-hydroxypropyl]-2-naphthol

Ee = 98%

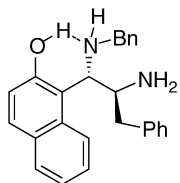
$[\alpha]_D^{20} = +1.1$ (c 0.46, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*1S,2R*)

Leonardo Cappannini, Cristina Cimorelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{26}H_{26}N_2O$

1-[(*S,S*)-2-Amino-1-(benzylamino)-3-phenylpropyl]-2-naphthol

Ee = 98%

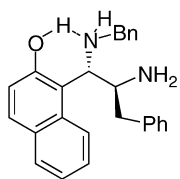
$[\alpha]_D^{20} = +1.9$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S,S*)

Leonardo Cappannini, Cristina Cimorelli, Sandra Giuli,
Gianni Palmieri* and Marino Petrini

Tetrahedron: Asymmetry 18 (2007) 1022



$C_{26}H_{26}N_2O$

1-[(*1R,2S*)-2-Amino-1-(benzylamino)-3-phenylpropyl]-2-naphthol

Ee = 98%

$[\alpha]_D^{20} = -0.5$ (*c* 1.44, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*1R,2S*)