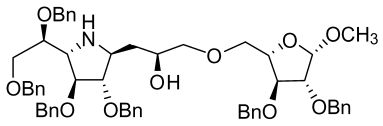
Virginie Liautard, Valérie Desvergnes, Olivier R. Martin*

Tetrahedron: Asymmetry *19 (2008) 1999*

$[\alpha]_D = -30$ (*c* 0.59, $CHCl_3$)
Configuration: β-L-*arabino* and D-*threo*-L-*galacto*



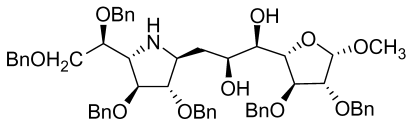
$C_{57}H_{65}NO_{10}$

Methyl 2,3-di-*O*-benzyl-5-*O*-(1,2,4,5-tetra-*O*-benzyl-3,6,7-trideoxy-3,6-imino-D-*threo*-L-*galacto*-nonit-9-yl)-β-L-arabinofuranoside

Virginie Liautard, Valérie Desvergnes, Olivier R. Martin*

Tetrahedron: Asymmetry *19 (2008) 1999*

$[\alpha]_D = -30$ (*c* 0.59, $CHCl_3$)
Configuration: α-D-*threo*-L-*galacto*-D-*galacto*



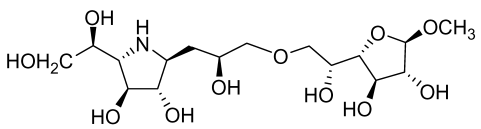
$C_{56}H_{63}NO_{10}$

Methyl 2,3,9,10,12,13-hexa-*O*-benzyl-7,8,11-trideoxy-8,11-imino-α-D-*threo*-L-*galacto*-D-*galacto*-trideco-1,4-furanoside

Virginie Liautard, Valérie Desvergnes, Olivier R. Martin*

Tetrahedron: Asymmetry *19 (2008) 1999*

$[\alpha]_D = -50$ (*c* 0.41, H_2O)
Configuration: β-D-*galacto* and D-*threo*-L-*galacto*



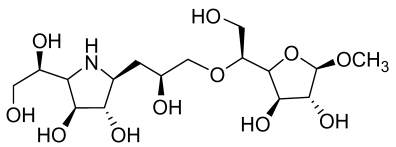
$C_{16}H_{31}NO_{11}$

Methyl 6-*O*-(3,6,7-trideoxy-3,6-imino-D-*threo*-L-*galacto*-nonit-9-yl)-β-D-galactofuranoside

Virginie Liautard, Valérie Desvergnes, Olivier R. Martin*

Tetrahedron: Asymmetry *19 (2008) 1999*

$[\alpha]_D = -45$ (*c* 0.49, H_2O)
Configuration: β-D-*galacto* and D-*threo*-L-*galacto*

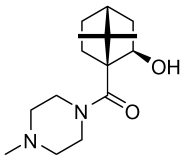


$C_{16}H_{31}NO_{11}$

Methyl 5-*O*-(3,6,7-trideoxy-3,6-imino-D-*threo*-L-*galacto*-nonit-9-yl)-β-D-galactofuranoside

Tomás de las Casas Engel, Beatriz Lora Maroto, Antonio García Martínez, Santiago de la Moya Cerero*

Tetrahedron: Asymmetry *19 (2008) 2003*



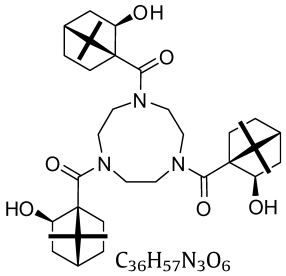
$C_{15}H_{26}N_2O_2$

(1*S*)-10-Oxo-10-(4-methylpiperidin-1-yl)isoborneol

Source of chirality: (1*S*)-ketopinic acid
$[\alpha]_D^{20} = -7.6$ (*c* 0.34, CH_2Cl_2)
Absolute configuration: (1*S*,2*R*,4*R*)

Tomás de las Casas Engel, Beatriz Lora Maroto, Antonio García Martínez, Santiago de la Moya Cerero*

Tetrahedron: Asymmetry *19 (2008) 2003*



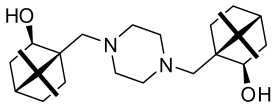
$C_{36}H_{57}N_3O_6$

N,*N*′,*N*″-Tris{[(1*S*,2*R*)-7,7-dimethyl-2-hydroxynorborn-1-yl]carbonyl}-1,4,7-triazonane

Source of chirality: (1*S*)-ketopinic acid
$[\alpha]_D^{20} = -137.2$ (*c* 0.50, CH_2Cl_2)
Absolute configuration: (1*S*,1′*S*,1″*S*,2*R*,2′*R*,2″*R*,4*R*,4′*R*,4″*R*)

Tomás de las Casas Engel, Beatriz Lora Maroto, Antonio García Martínez, Santiago de la Moya Cerero*

Tetrahedron: Asymmetry *19 (2008) 2003*



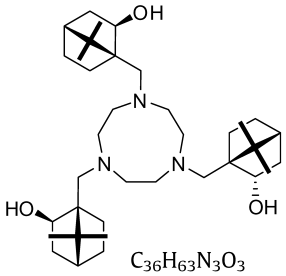
$C_{24}H_{42}N_2O_2$

N,*N*′-Bis{[(1*R*,2*R*)-7,7-dimethyl-2-hydroxynorborn-1-yl]methyl}piperazine

Source of chirality: (1*S*)-ketopinic acid
$[\alpha]_D^{20} = -69.3$ (*c* 0.31, $CHCl_3$)
Absolute configuration: (1*R*,1′*R*,2*R*,2′*R*,4*R*,4′*R*)

Tomás de las Casas Engel, Beatriz Lora Maroto, Antonio García Martínez, Santiago de la Moya Cerero*

Tetrahedron: Asymmetry *19 (2008) 2003*



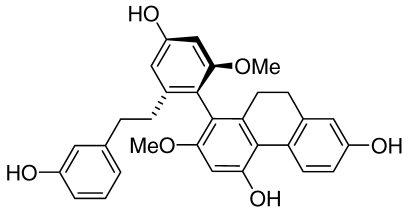
$C_{36}H_{63}N_3O_3$

N,*N*′,*N*″-Tris{[(1*R*,2*R*)-7,7-dimethyl-2-hydroxynorborn-1-yl]methyl}-1,4,7-triazonane

Source of chirality: (1*S*)-ketopinic acid
$[\alpha]_D^{20} = -22.1$ (*c* 0.095, CH_2Cl_2)
Absolute configuration: (1*R*,1′*R*,1″*R*,2*R*,2′*R*,2″*R*,4*R*,4′*R*,4″*R*)

Sheng Yao, Chun-Ping Tang, Yang Ye *, Tibor Kurtán, Attila Kiss-Szikszai, Sándor Antus, Gennaro Pescitelli, Piero Salvadori, Karsten Krohn *

Tetrahedron: Asymmetry *19 (2008) 2007*



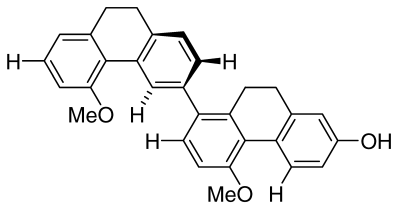
$C_{30}H_{28}O_6$

(−)-CD [310 nm]
Absolute configuration: (a*S*)

(a*S*)-8-(2-(3-Hydroxyphenethyl)-4-hydroxy-6-methoxyphenyl)-7-methoxy-9,10-dihydrophenanthrene-2,5-diol

Sheng Yao, Chun-Ping Tang, Yang Ye *, Tibor Kurtán, Attila Kiss-Szikszai, Sándor Antus, Gennaro Pescitelli, Piero Salvadori, Karsten Krohn *

Tetrahedron: Asymmetry *19 (2008) 2007*



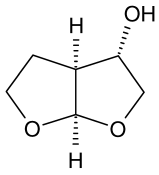
$C_{30}H_{26}O_6$

(+)-CD [310 nm]
Absolute configuration: (a*S*)

(a*S*)-1-(2,7-Dihydroxy-4-methoxy-9,10-dihydrophenanthren-1-yl)-4-methoxy-9,10-dihydrophenanthrene-2,7-diol

David M. Black, Roman Davis, Brian D. Doan, Tom C. Lovelace, Alan Millar, Jennifer F. Toczko, Shiping Xie*

Tetrahedron: Asymmetry *19 (2008) 2015*



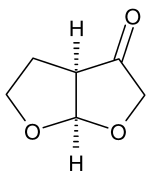
$C_6H_{10}O_3$

Er = 97:3 (chiral GC analysis)
$[\alpha]_D^{25} = -29.6$ (*c* 1.40, $CHCl_3$)
Source of chirality: asymmetric catalysis with [Cu((*S*,*S*)-phenyl-bis(oxazolinyl)pyridine)]$(SbF_6)_2$
Absolute configuration: (*S*,*S*)
Absolute configuration: (3*S*,3a*S*,6a*R*)

(3*S*,3a*S*,6a*R*)-Hexahydrofuro[2,3-*b*]furan-3-ol

David M. Black, Roman Davis, Brian D. Doan, Tom C. Lovelace, Alan Millar, Jennifer F. Toczko, Shiping Xie*

Tetrahedron: Asymmetry *19 (2008) 2015*



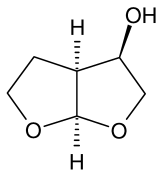
$C_6H_8O_3$

Er = 97:3
$[\alpha]_D^{25} = -151.9$ (*c* 0.89, $CHCl_3$)
Source of chirality: asymmetric catalysis with [Cu((*S*,*S*)-phenyl-bis(oxazolinyl)pyridine)]$(SbF_6)_2$
Absolute configuration: (*S*,*S*)
Absolute configuration: (3a*R*,6a*R*)

(3a*R*,6a*R*)-Tetrahydrofuro[2,3-*b*]furan-3(2*H*)-one

David M. Black, Roman Davis, Brian D. Doan, Tom C. Lovelace, Alan Millar, Jennifer F. Toczko, Shiping Xie*

Tetrahedron: Asymmetry *19 (2008) 2015*



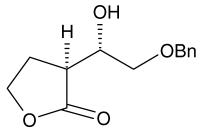
$C_6H_{10}O_3$

(3*R*,3a*S*,6a*R*)-Hexahydrofuro[2,3-*b*]furan-3-ol

Er = 97:3
$[\alpha]_D^{25} = -11.6$ (*c* 0.73, MeOH)
Source of chirality: asymmetric catalysis with [Cu((*S*,*S*)-phenyl-bis(oxazolinyl)pyridine)]$(SbF_6)_2$
Absolute configuration: (*S*,*S*)
Absolute configuration: (3*R*,3a*S*,6a*R*)

David M. Black, Roman Davis, Brian D. Doan, Tom C. Lovelace, Alan Millar, Jennifer F. Toczko, Shiping Xie*

Tetrahedron: Asymmetry *19 (2008) 2015*



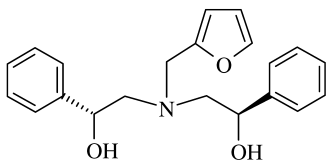
$C_{13}H_{16}O_4$

(3*S*)-3-[(1*S*)-2-(Benzyloxy)-1-hydroxyethyl]dihydrofuran-2(3*H*)-one

Er = 97:3
$[\alpha]_D^{25} = -8.0$ (*c* 2.61, $CHCl_2$)
Source of chirality: asymmetric catalysis with [Cu((*S*,*S*)-phenyl-bis(oxazolinyl)pyridine)]$(SbF_6)_2$
Absolute configuration: (*S*,*S*)
Absolute configuration: (*S*,*S*)

Havva Nur Demirtas, Selahattin Bozkurt, Mustafa Durmaz, Mustafa Yilmaz, Abdulkadir Sirit*

Tetrahedron: Asymmetry *19 (2008) 2020*



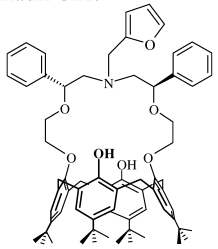
$C_{21}H_{23}NO_3$

(*R*,*R*)-2-[Furfuryl-(2-hydroxy-2-phenylethyl)-amino]-1-phenylethanol

$[\alpha]_D^{25} = -72.0$ (*c* 1, $CHCl_3$)
Source of chirality: (*R*)-(+)-styrene oxide
Absolute configuration: (*R*,*R*)

Havva Nur Demirtas, Selahattin Bozkurt, Mustafa Durmaz, Mustafa Yilmaz, Abdulkadir Sirit*

Tetrahedron: Asymmetry *19 (2008) 2020*



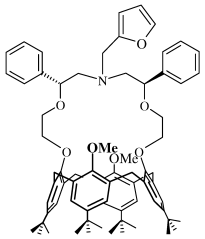
$C_{69}H_{83}NO_7$

N-Furfuryl-5,11,17,23-tetra-*tert*-butyl-25,27-dihydroxy-26,28-(4′*R*,8′*R*-diphenyl-6′-aza-3′,9′-dioxaundecane)-dioxycalix[4]arene

$[\alpha]_D^{25} = +17.0$ (*c* 1, $CHCl_3$)
Source of chirality: (*R*)-(+)-styrene oxide
Absolute configuration: (*R*,*R*)

Havva Nur Demirtas, Selahattin Bozkurt, Mustafa Durmaz, Mustafa Yilmaz, Abdulkadir Sirit *

Tetrahedron: Asymmetry *19 (2008) 2020*



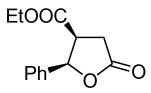
$C_{71}H_{87}NO_7$

$[\alpha]_D^{25} = -6.0$ (c 1, $CHCl_3$)
Source of chirality: (*R*)-(+)-styrene oxide
Absolute configuration: (*R*,*R*)

N-Furfuryl-5,11,17,23-tetra-*tert*-butyl-25,27-dimethoxy-26,28-(4′*R*,8′*R*-diphenyl-6′-aza-3′,9′-dioxaundecane)-dioxycalix[4]arene

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



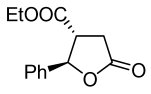
$C_{13}H_{14}O_4$

Ee = 94% (by chiral HRGC)
$[\alpha]_D^{25} = +10.0$ (c 0.54, MeOH)
$\Delta\varepsilon_{217} = +2.9$ (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*S*)

Ethyl (2*R*,3*S*)-(+)-5-oxo-2-phenyltetrahydro-3-furancarboxylate

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



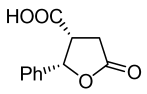
$C_{13}H_{14}O_4$

Ee = 93% (by chiral HRGC)
$[\alpha]_D^{25} = -55.3$ (c 0.58, MeOH)
$\Delta\varepsilon_{221} = -2.7$ (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*R*)

Ethyl (2*R*,3*R*)-(−)-5-oxo-2-phenyltetrahydro-3-furancarboxylate

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



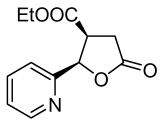
$C_{11}H_{10}O_4$

Ee = 32% (by chiral HRGC)
$[\alpha]_D^{25} = +19$ (c 0.2, MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*S*,3*S*)

(2*S*,3*S*)-(+)-5-Oxo-2-phenyltetrahydro-3-furancarboxylic acid

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



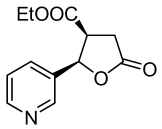
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*S*)-(−)-5-oxo-2-(2-pyridyl)tetrahydro-3-furancarboxylate

Ee = 98% (by chiral HRGC)
$[\alpha]_D^{25} = -7.3$ (*c* 0.49, MeOH)
$\Delta\varepsilon_{215}$ = +2.0 (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*S*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



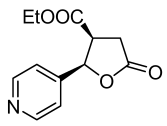
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*S*)-(+)-5-oxo-2-(3-pyridyl)tetrahydro-3-furancarboxylate

Ee = 99% (by chiral HRGC)
$[\alpha]_D^{25} = +14.7$ (*c* 0.6, MeOH)
$\Delta\varepsilon_{209}$ = +2.6 (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*S*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



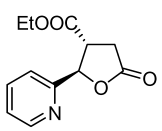
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*S*)-(+)-5-oxo-2-(4-pyridyl)tetrahydro-3-furancarboxylate

Ee = 99% (by chiral HRGC)
$[\alpha]_D^{25} = +12.6$ (*c* 0.35, MeOH)
$\Delta\varepsilon_{210}$ = +2.0 (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*S*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



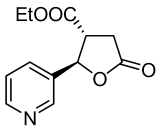
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*R*)-(−)-5-oxo-2-(2-pyridyl)tetrahydro-3-furancarboxylate

Ee = 80% (by chiral HRGC)
$[\alpha]_D^{25} = -52.8$ (*c* 0.49, MeOH)
$\Delta\varepsilon_{213}$ = −2.3 (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*R*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



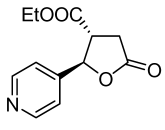
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*R*)-(−)-5-oxo-2-(3-pyridyl)tetrahydro-3-furancarboxylate

Ee = 94% (by chiral HRGC)
$[\alpha]_D^{25} = -51.6$ (*c* 0.5, MeOH)
$\Delta\varepsilon_{215} = -1.0$ (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*R*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



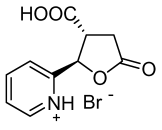
$C_{12}H_{13}NO_4$

Ethyl (2*R*,3*R*)-(−)-5-oxo-2-(4-pyridyl)tetrahydro-3-furancarboxylate

Ee = 89% (by chiral HRGC)
$[\alpha]_D^{25} = -48.7$ (*c* 0.23, MeOH)
$\Delta\varepsilon_{215} = -2.2$ (MeOH)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*R*)

Cristina Forzato *, Giada Furlan, Patrizia Nitti, Giuliana Pitacco, Ennio Valentin *, Ennio Zangrando, Pietro Buzzini, Marta Goretti, Benedetta Turchetti

Tetrahedron: Asymmetry *19 (2008) 2026*



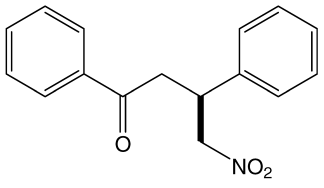
$C_{10}H_{10}BrNO_4$

Ethyl (2*R*,3*R*)-(−)-5-oxo-2-(2-pyridyl)tetrahydro-3-furancarboxylic acid hydrobromide

Ee = 80% (by chiral HRGC)
$[\alpha]_D^{25} = -23.4$ (*c* 0.47, H_2O)
Source of chirality: enzymatic resolution
Absolute configuration: (2*R*,3*R*)

Palaniswamy Suresh, Kasi Pitchumani *

Tetrahedron: Asymmetry *19 (2008) 2037*



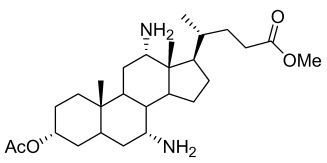
$C_{16}H_{15}NO_3$

(*S*)-4-Nitro-1,3-diphenylbutan-1-one

Ee = 68.5% (by Chiral HPLC with chiralcel AD-H column)
$[\alpha]_D^{25} = -11.1$ (*c* 1.00, CH_2Cl_2)
Source of chirality: per-6-amino-β-cyclodextrin
Absolute configuration: (3*S*)

Gian Luigi Puleo, Anna Iuliano *

Tetrahedron: Asymmetry *19 (2008) 2045*



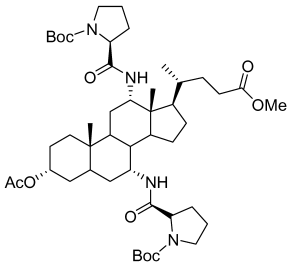
$[\alpha]_D^{22} = +35.0$ (c 1.00, CH_2Cl_2)
Source of chirality: natural source

$C_{27}H_{46}N_2O_4$

Methyl 3α-acetyloxy-12α,7α-diamino-5α-cholan-24-oate

Gian Luigi Puleo, Anna Iuliano *

Tetrahedron: Asymmetry *19 (2008) 2045*



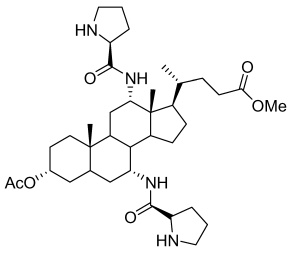
$[\alpha]_D^{22} = +79.5$ (c 1.00, CH_2Cl_2)
Source of chirality: natural source

$C_{47}H_{76}N_4O_{10}$

Methyl 3α-acetyloxy-7α,12α-bis(Boc-D-prolinoyl)amino-5α-cholan-24-oate

Gian Luigi Puleo, Anna Iuliano *

Tetrahedron: Asymmetry *19 (2008) 2045*



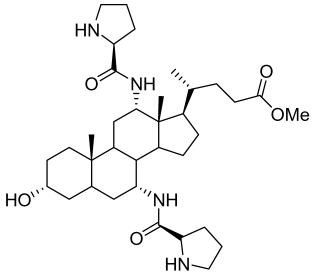
$[\alpha]_D^{22} = +43.4$ (c 1.00, CH_2Cl_2)
Source of chirality: natural source

$C_{37}H_{60}N_4O_6$

Methyl 3α-acetyloxy-12α,7α-bis(D-prolinoyl)amino-5α-cholan-24-oate

Gian Luigi Puleo, Anna Iuliano *

Tetrahedron: Asymmetry *19 (2008) 2045*



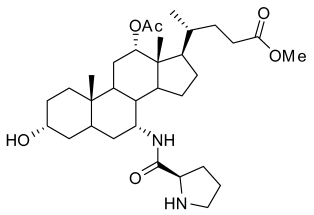
$[\alpha]_D^{22} = +112.7$ (c 1.00, CH_2Cl_2)
Source of chirality: natural source

$C_{35}H_{58}N_4O_5$

Methyl 3α-hydroxy-12α,7α-bis(D-prolinoyl)amino-5α-cholan-24-oate

Gian Luigi Puleo, Anna Iuliano *

Tetrahedron: Asymmetry *19 (2008) 2045*



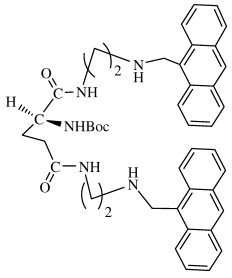
$[\alpha]_D^{22} = +132.6$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

$C_{32}H_{52}N_2O_6$

Methyl 3α-hydroxy-12α-acetyloxy-7α-(D-prolinoyl)amino-5α-cholan-24-oate

Zhi-hong Chen, Yong-bing He *, Chen-Guang Hu, Xiao-huan Huang

Tetrahedron: Asymmetry *19 (2008) 2051*



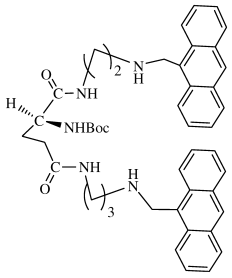
$[\alpha]_D^{20} = -169$ (*c* 0.071, $CHCl_3$)

$C_{44}H_{49}N_5O_4$

tert-butyl (*S*)-1,3-bis(2-((anthracen-10-yl)methylamino)ethylcarbamoyl)propylcarbamate

Zhi-hong Chen, Yong-bing He *, Chen-Guang Hu, Xiao-huan Huang

Tetrahedron: Asymmetry *19 (2008) 2051*



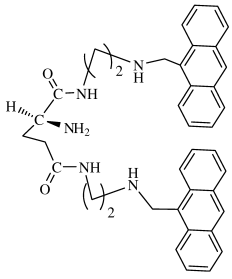
$[\alpha]_D^{20} = +81.1$ (*c* 0.074, $CHCl_3$)

$C_{46}H_{53}N_5O_4$

tert-butyl (*S*)-1,3-bis(3-((anthracen-10-yl)methylamino)propylcarbamoyl)propylcarbamate

Zhi-hong Chen, Yong-bing He *, Chen-Guang Hu, Xiao-huan Huang

Tetrahedron: Asymmetry *19 (2008) 2051*



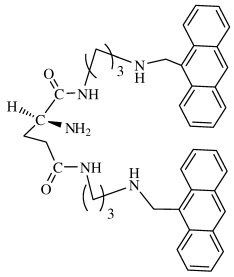
$[\alpha]_D^{20} = -114.2$ (*c* 0.061, $CHCl_3$)

$C_{39}H_{41}N_5O_2$

(*S*)-N^1, N^6-bis(2-((anthracen-10-yl)methylamino)ethyl)2-aminopentanediamide

Zhi-hong Chen, Yong-bing He *, Chen-Guang Hu, Xiao-huan Huang

Tetrahedron: Asymmetry *19 (2008) 2051*



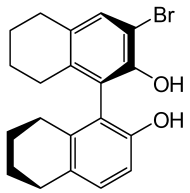
$[\alpha]_D^{20} = +109$ (c 0.064, $CHCl_3$)

$C_{41}H_{45}N_5O_2$

(S)-N^1, N^6-bis(3-((anthracen-10-yl)methylamino)propyl)-2-aminopentanediamide

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



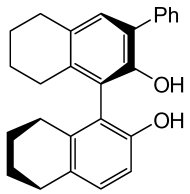
Ee = 100%
$[\alpha]_D^{25} = +55.9$ (c 1.19, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (R)

$C_{20}H_{21}BrO_2$

(R)-(+)-3-Bromo-5,6,7,8-tetrahydro-1-(5,6,7,8-tetrahydro-2-hydroxynaphthalen-1-yl)naphthalen-2-ol

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



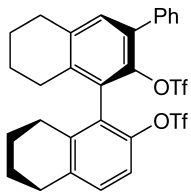
Ee = 100%
$[\alpha]_D^{25} = +83.5$ (c 0.76, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (R)

$C_{26}H_{26}O_2$

(R)-(+)-5,6,7,8-Tetrahydro-1-(5,6,7,8-tetrahydro-2-hydroxynaphthalen-1-yl)-3-phenylnaphthalen-2-ol

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



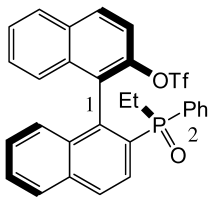
Ee = 100%
$[\alpha]_D^{25} = -59.2$ (c 1.05, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (R)

$C_{28}H_{24}F_6O_6S_2$

(R)-(−)-2,2′-Bis((trifluoromethanesulfony1)oxy)-3-phenyl-1,1′-H8-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



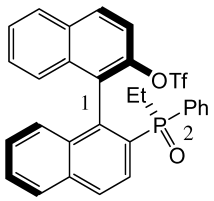
$C_{29}H_{22}F_3O_4PS$

Ee = 100%
$[\alpha]_D^{25} = -48.6$ (*c* 0.70, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2S)

(1*R*,2S)-(−)-2-(Ethyl(phenyl)phosphinyl)-2′-[(trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



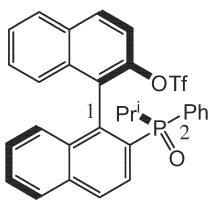
$C_{29}H_{22}F_3O_4PS$

Ee = 100%
$[\alpha]_D^{25} = +26.1$ (*c* 1.13, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2*R*)

(1*R*,2R)-(+)-2-(Ethyl(phenyl)phosphinyl)-2′-[(trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



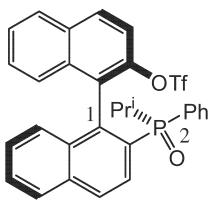
$C_{30}H_{24}F_3O_4PS$

Ee = 100%
$[\alpha]_D^{25} = -75.0$ (*c* 0.92, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2S)

(1*R*,2S)-(−)-2-(Isopropyl(phenyl)phosphinyl)-2′-[trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



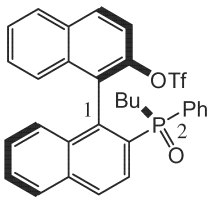
$C_{30}H_{24}F_3O_4PS$

Ee = 100%
$[\alpha]_D^{25} = +28.2$ (*c* 1.06, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2*R*)

(1*R*,2R)-(+)-2-(Isopropyl(phenyl)phosphinyl)-2′-[trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



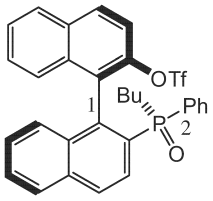
Ee = 100%
$[\alpha]_D^{25} = -69.2$ (*c* 0.86, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2S)

$C_{31}H_{26}F_3O_4PS$

(1*R*,2S)-(−)-2-(Butyl(phenyl)phosphinyl)-2′-[trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Zhi-Yu Lei, Xu-Guang Liu, Min Shi *, Meixin Zhao

Tetrahedron: Asymmetry *19 (2008) 2058*



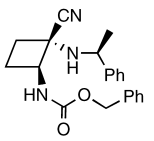
Ee = 100%
$[\alpha]_D^{25} = +31.7$ (*c* 1.08, CH_2Cl_2)
Source of chirality: resolution
Absolute configuration: (1*R*,2*R*)

$C_{31}H_{26}F_3O_4PS$

(1*R*,2*R*)-(+)-2-(Butyl(phenyl)phosphinyl)-2′-[trifluoromethanesulfonyl)oxy]-1,1′-binaphthalene

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



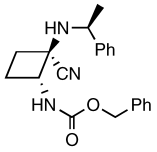
Ee >99%
$[\alpha]_D^{20} = -181$ (*c* 1.00, $CHCl_3$)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*S*,2*S*,1′*S*)

$C_{21}H_{23}N_3O_2$

2-(*N*-Benzyloxycarbonyl)amino-1-(1′-phenylethyl)aminocyclobutanecarbonitrile

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



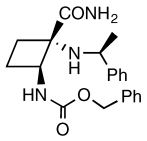
Ee >99%
$[\alpha]_{365}^{20} = -23.6$ (*c* 1.00, $CHCl_3$)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*R*,2*R*,1′*S*)

$C_{21}H_{23}N_3O_2$

2-(*N*-Benzyloxycarbonyl)amino-1-(1′-phenylethyl)aminocyclobutanecarbonitrile

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



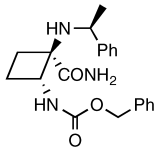
Ee >99%
$[\alpha]_D^{20} = -53$ (*c* 1.00, $CHCl_3$)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*S*,2*S*,1′*S*)

$C_{21}H_{25}N_3O_3$

2-(*N*-Benzyloxycarbonyl)amino-1-(1′-phenylethyl)aminocyclobutanecarboxamide

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



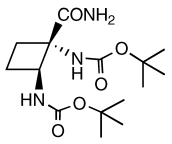
Ee >99%
$[\alpha]_D^{20} = -15.4$ (*c* 1.00, $CHCl_3$)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*R*,2*R*,1′*S*) assigned by X-ray analysis

$C_{21}H_{25}N_3O_3$

2-(*N*-Benzyloxycarbonyl)amino-1-(1′-phenylethyl)aminocyclobutanecarboxamide

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



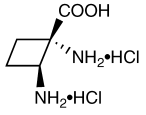
Ee >99%
$[\alpha]_D^{20} = -15$ (*c* 0.25, $CHCl_3$)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*S*,2*S*)

$C_{15}H_{21}N_3O_5$

1,2-Di-[(*N*-*tert*-butyloxycarbonyl)amino]cyclobutanecarboxamide

Damien Hazelard, Antoine Fadel*, Régis Guillot

Tetrahedron: Asymmetry *19 (2008) 2063*



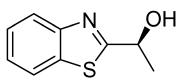
Ee >99%
$[\alpha]_D^{20} = -4$ (*c* 0.60, H_2O)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (1*S*,2*S*)

$C_5H_{12}N_2O_2Cl_2$

1,2-Diaminocyclobutanecarboxylic acid·hydrochloride

Monica Ioana Toşa, Paula Veronica Podea, Csaba Paizs, Florin Dan Irimie *

Tetrahedron: Asymmetry *19 (2008) 2068*



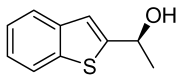
C_9H_9NOS

(*S*)-1-(Benzo[*d*]thiazol-2-yl)ethanol

Ee = 98% on Astec B-DM GC column
$[\alpha]_D^{20} = -18.5$ (*c* 1, $CHCl_3$)
Source of chirality: bioreduction by baker's yeast
Absolute configuration: (*S*)

Monica Ioana Toşa, Paula Veronica Podea, Csaba Paizs, Florin Dan Irimie *

Tetrahedron: Asymmetry *19 (2008) 2068*



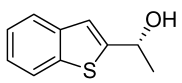
$C_{10}H_{10}OS$

(*S*)-1-(Benzo[*b*]thiophen-2-yl)ethanol

Ee = 99% on on Astec B-DM GC column
$[\alpha]_D^{20} = -21.2$ (*c* 1, $CHCl_3$)
Source of chirality: bioreduction by baker's yeast
Absolute configuration: (*S*)

Monica Ioana Toşa, Paula Veronica Podea, Csaba Paizs, Florin Dan Irimie *

Tetrahedron: Asymmetry *19 (2008) 2068*



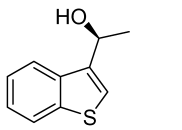
$C_{10}H_{10}OS$

(*R*)-1-(Benzo[*b*]thiophen-2-yl)ethanol

Ee = 99% on on Astec B-DM GC column
$[\alpha]_D^{20} = +21.2$ (*c* 1, $CHCl_3$)
Source of chirality: bioreduction by baker's yeast
Absolute configuration: (*S*)

Monica Ioana Toşa, Paula Veronica Podea, Csaba Paizs, Florin Dan Irimie *

Tetrahedron: Asymmetry *19 (2008) 2068*



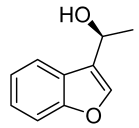
$C_{10}H_{10}OS$

(*S*)-1-(Benzo[*b*]thiophen-3-yl)ethanol

Ee = 99% on on Astec B-DM GC column
$[\alpha]_D^{20} = -27.1$ (*c* 1, $CHCl_3$)
Source of chirality: bioreduction by baker's yeast
Absolute configuration: (*S*)

Monica Ioana Toşa, Paula Veronica Podea, Csaba Paizs, Florin Dan Irimie *

Tetrahedron: Asymmetry *19 (2008) 2068*



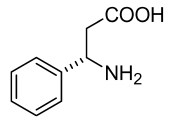
$C_{10}H_{10}O_2$

(*S*)-1-(Benzofuran-3-yl)ethanol

Ee = 99% on Astec B-DM GC column
$[\alpha]_D^{20} = -18.95$ (*c* 1, $CHCl_3$)
Source of chirality: bioreduction by baker's yeast
Absolute configuration: (*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



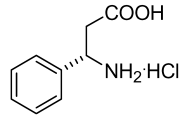
$C_9H_{11}NO_2$

(*S*)-3-Amino-3-phenylpropanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = -8$ (*c* 0.27, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



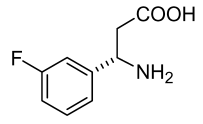
$C_9H_{12}ClNO_2$

(*S*)-3-Amino-3-phenylpropanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +4$ (*c* 0.3, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



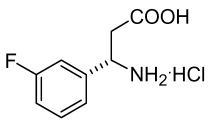
$C_9H_{10}FNO_2$

(*S*)-3-Amino-3-(3-fluorophenyl)propanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = -1.8$ (*c* 0.38, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



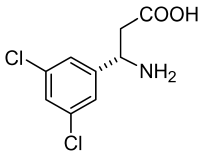
$C_9H_{11}ClFNO_2$

(*S*)-3-Amino-3-(3-fluorophenyl)propanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +5.7$ (*c* 0.31, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



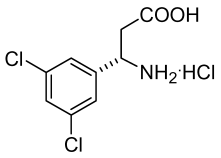
$C_9H_9Cl_2NO_2$

(*S*)-3-Amino-3-(3,5-dichlorophenyl)propanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = -5.5$ (*c* 0.38, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



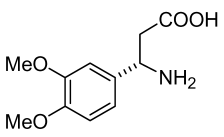
$C_9H_{11}ClFNO_2$

(*S*)-3-Amino-3-(3,5-dichlorophenyl)propanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +5.7$ (*c* 0.34, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



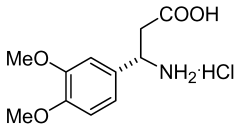
$C_{11}H_{15}NO_4$

(*S*)-3-Amino-3-(3,4-dimethoxyphenyl)propanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +1.3$ (*c* 0.51, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



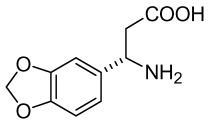
$C_{11}H_{16}ClNO_4$

(*S*)-3-Amino-3-(3,4-dimethoxyphenyl)propanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +7.2$ (*c* 0.315, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



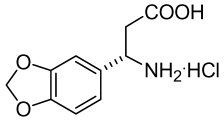
$C_{10}H_{11}NO_4$

(*S*)-3-Amino-3-benzo[1,3]dioxol-5-ylpropanoic acid

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +4$ (*c* 0.3, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Gábor Tasnádi, Enikő Forró*, Ferenc Fülöp*

Tetrahedron: Asymmetry *19 (2008) 2072*



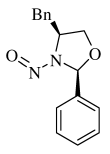
$C_{10}H_{12}ClNO_4$

(*S*)-3-Amino-3-benzo[1,3]dioxol-5-ylpropanoic acid hydrochloride

Ee >99% by GC on a Chirasil L-Val column after derivatization with CH_2N_2 and Ac_2O
$[\alpha]_D^{25} = +8.9$ (*c* 0.33, H_2O)
Source of chirality: lipase PS-catalyzed hydrolysis
Absolute configuration: (3*S*)

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu*

Tetrahedron: Asymmetry *19 (2008) 2078*



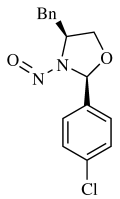
$C_{16}H_{16}N_2O_2$

(2*S*,4*S*)-4-Benzyl-3-nitroso-2-phenyloxazolidine

$[\alpha]_D^{20} = -45$ (*c* 0.85, $CHCl_3$)
Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{16}H_{15}N_2O_2Cl$

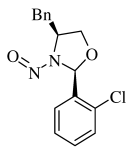
(2*S*,4*S*)-4-Benzyl-2-(4-chlorophenyl)-3-nitrosooxazolidine

$[\alpha]_D^{20} = -49$ (*c* 0.90, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{16}H_{15}N_2O_2Cl$

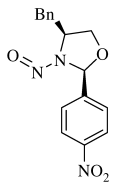
(2*S*,4*S*)-4-Benzyl-2-(2-chlorophenyl)-3-nitrosooxazolidine

$[\alpha]_D^{20} = -48$ (*c* 1.00, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{16}H_{15}N_3O_4$

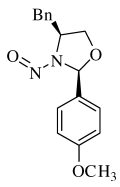
(2*S*,4*S*)-4-Benzyl-2-(4-nitrophenyl)-3-nitrosooxazolidine

$[\alpha]_D^{20} = -52$ (*c* 1.00, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{17}H_{18}N_2O_3$

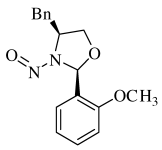
(2*S*,4*S*)-4-Benzyl-2-(4-methoxyphenyl)-3-nitrosooxazolidine

$[\alpha]_D^{20} = -43$ (*c* 1.00, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{17}H_{18}N_2O_3$

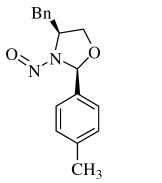
(2*S*,4*S*)-4-Benzyl-2-(2-methoxyphenyl)-3-nitrosooxazolidine

$[\alpha]_D^{20} = -40$ (*c* 1.20, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{17}H_{18}N_2O_2$

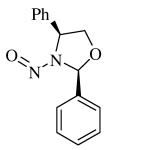
(2*S*,4*S*)-4-Benzyl-3-nitroso-2-*p*-tolyloxazolidine

$[\alpha]_D^{20} = -38$ (*c* 1.00, $CHCl_3$)

Source of chirality: L-phenylalanine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{15}H_{14}N_2O_2$

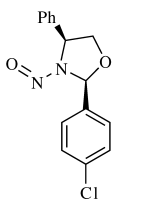
(2*S*,4*S*)-3-Nitroso-2,4-diphenyloxazolidine

$[\alpha]_D^{20} = -35$ (*c* 0.40, $CHCl_3$)

Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



$C_{15}H_{13}N_2O_2Cl$

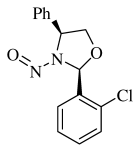
(2*S*,4*S*)-2-(4-Chlorophenyl)-3-nitroso-4-phenyloxazolidine

$[\alpha]_D^{20} = -37$ (*c* 0.50, $CHCl_3$)

Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



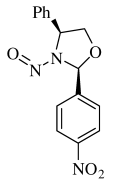
$C_{15}H_{13}N_2O_2Cl$

(2*S*,4*S*)-2-(2-Chlorophenyl)-3-nitroso-4-phenyloxazolidine

$[\alpha]_D^{20} = -32$ (*c* 0.70, $CHCl_3$)
Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



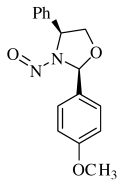
$C_{15}H_{13}N_3O_4$

(2*S*,4*S*)-2-(4-Nitrophenyl)-3-nitroso-4-phenyloxazolidine

$[\alpha]_D^{20} = -39$ (*c* 1.20, $CHCl_3$)
Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



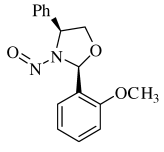
$C_{16}H_{16}N_2O_3$

(2*S*,4*S*)-2-(4-Methoxyphenyl)-3-nitroso-4-phenyloxazolidine

$[\alpha]_D^{20} = -41$ (*c* 1.10, $CHCl_3$)
Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



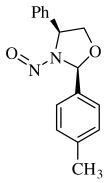
$C_{16}H_{16}N_2O_3$

(2*S*,4*S*)-2-(2-Methoxyphenyl)-3-nitroso-4-phenyloxazolidine

$[\alpha]_D^{20} = -39$ (*c* 1.00, $CHCl_3$)
Source of chirality: L-(+)-2-phenylglycine

Lijun Peng, Jiantao Wang, Chuanmin Sun, Zhongquan Liu, Longmin Wu *

Tetrahedron: Asymmetry *19 (2008) 2078*



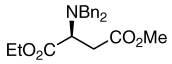
$C_{16}H_{16}N_2O_2$

(2*S*,4*S*)-3-Nitroso-4-phenyl-2-p-tolyloxazolidine

$[\alpha]_D^{20} = -32$ (*c* 0.90, $CHCl_3$)
Source of chirality: L-(+)-2-phenylglycine

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*



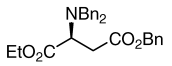
$C_{21}H_{25}NO_4$

(*S*)-1-Ethyl 4-methyl 2-(dibenzylamino)succinate

Ee = 94%
$[\alpha]_D = -76.5$ (*c* 0.39, $CHCl_3$)
Absolute configuration: (*S*)

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*



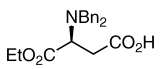
$C_{27}H_{29}NO_4$

(*S*)-1-Ethyl 4-benzyl 2-(dibenzylamino)succinate

Ee = 96%
$[\alpha]_D = -58.2$ (*c* 0.40, $CHCl_3$)
Absolute configuration: (*S*)

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*



$C_{20}H_{23}NO_4$

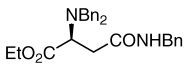
(*S*)-3-(Dibenzylamino)-4-ethoxy-4-oxobutanoic acid

Ee = 96%
$[\alpha]_D = -96.2$ (*c* 0.40, $CHCl_3$)
Absolute configuration: (*S*)

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*

Ee = 99%
$[\alpha]_D = -79.8$ (*c* 0.54, $CHCl_3$)
Absolute configuration: (*S*)



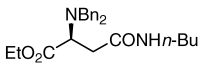
$C_{27}H_{30}N_2O_3$

(*S*)-Ethyl 4-(benzylamino)-2-(dibenzylamino)-4-oxobutanoate

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*

Ee = 95%
$[\alpha]_D = -79.9$ (*c* 0.46, $CHCl_3$)
Absolute configuration: (*S*)



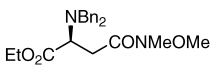
$C_{24}H_{32}N_2O_3$

(*S*)-Ethyl 4-(butylamino)-2-(dibenzylamino)-4-oxobutanoate

Thanh Binh Nguyen, Thi Minh Ha Vuong, Arnaud Martel, Robert Dhal, Gilles Dujardin *

Tetrahedron: Asymmetry *19 (2008) 2084*

Ee = 98%
$[\alpha]_D = -78.2$ (*c* 0.35, $CHCl_3$)
Absolute configuration: (*S*)



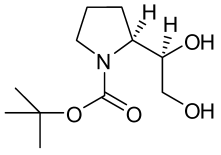
$C_{22}H_{28}N_2O_4$

(*S*)-Ethyl 2-(dibenzylamino)-4-(methoxy(methyl)amino)-4-oxobutanoate

David Díez *, Ana B. Antón, Pilar García, Narciso M. Garrido, Isidro S. Marcos, Pilar Basabe, Julio G. Urones

Tetrahedron: Asymmetry *19 (2008) 2088*

Ee, de >95% (NMR)
$[\alpha]_D^{20} = -42.7$ (*c* 1.1, $CHCl_3$)
Source of chirality: natural product, AD-mixβ
Absolute configuration; (2*S*,1′*R*)

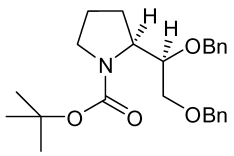


$C_{11}H_{21}NO_4$

(2*S*)-*N*-*tert*-Butoxycarbonyl-2-[(1′*R*)-1′,2′-dihydroxy-ethyl]-pyrrolidine

David Díez *, Ana B. Antón, Pilar García, Narciso M. Garrido, Isidro S. Marcos, Pilar Basabe, Julio G. Urones

Tetrahedron: Asymmetry *19 (2008) 2088*



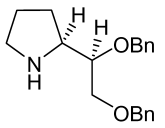
Ee, de >95% (NMR)
$[\alpha]_D^{20} = -70.1$ (*c* 0.7, $CHCl_3$)
Source of chirality: natural product, AD-mixβ
Absolute configuration; (2*S*,1′*R*)

$C_{25}H_{33}NO_4$

(2*S*)-*N*-*tert*-Butoxycarbonyl-2-[(1′*R*)-1′,2′-dibenzyloxy-ethyl]-pyrrolidine

David Díez *, Ana B. Antón, Pilar García, Narciso M. Garrido, Isidro S. Marcos, Pilar Basabe, Julio G. Urones

Tetrahedron: Asymmetry *19 (2008) 2088*



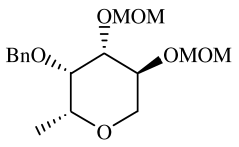
Ee, de >95% (NMR)
$[\alpha]_D^{20} = -34.6$ (*c* 0.6, $CHCl_3$)
Source of chirality: natural product, AD-mixβ
Absolute configuration; (2*S*,1′*R*)

$C_{20}H_{25}NO_2$

(2*S*)-2-[(1′*R*)-1′,2′-Dibenzyloxy-ethyl]-pyrrolidine

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



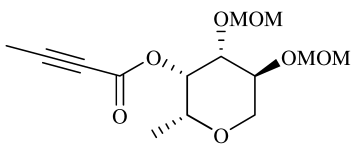
$[\alpha]_D = -100.7$ (*c* 1.4, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*S*,4*R*,5*S*)

$C_{17}H_{26}O_6$

(2*R*,3*S*,4*R*,5*S*)-3-(Benzyloxy)-4,5-bis(methoxymethoxy)-2-methyl-tetrahydro-2*H*-pyran

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



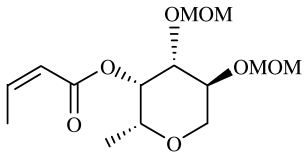
$[\alpha]_D = +13.5$ (*c* 0.2, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*S*,4*R*,5*S*)

$C_{14}H_{22}O_7$

(2*R*,3*S*,4*R*,5*S*)-4,5-Bis(methoxymethoxy)-2-methyl-tetrahydro-2*H*-pyran-3-yl-but-2-yn-oate

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



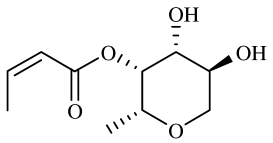
$[\alpha]_D$ = +34.4 (*c* 0.2, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*S*,4*R*,5*S*)

$C_{14}H_{24}O_7$

(*Z*)-[(2*R*,3*S*,4*R*,5*S*)-4,5-Bis(methoxymethoxy)-2-methyl-tetrahydro-2*H*-pyran-3-yl)-but-2-enoate

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



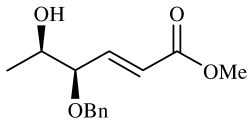
$[\alpha]_D$ = +38.4 (*c* 0.1, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*S*,4*R*,5*S*)

$C_{10}H_{16}O_5$

Ophiocerin-D

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



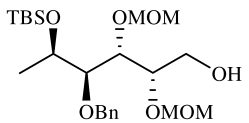
$[\alpha]_D$ = −22.8 (*c* 1.2, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (4*R*,5*R*)

$C_{14}H_{18}O_4$

(4*R*,5*R*,*E*)-Methyl 4-(benxyloxy)-5-hydroxyhex-2-enoate

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



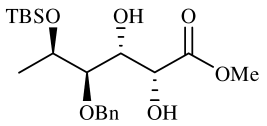
$[\alpha]_D$ = −30.4 (*c* 2.4, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*R*,4*R*,5*R*)

$C_{23}H_{42}O_7Si$

(2*R*,3*R*,4*R*,5*R*)-4-(Benzyloxy)-5-(*tert*-butyldimethylsilyloxy)-2,3-bis(methoxymethoxy)hexan-1-ol

Gangavaram V.M. Sharma *, Krishna Damera

Tetrahedron: Asymmetry *19 (2008) 2092*



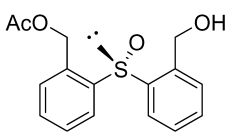
$[\alpha]_D$ = +12.8 (*c* 1.5, $CHCl_3$)
Source of chirality: D-xylose
Absolute configuration: (2*R*,3*R*,4*R*,5*R*)

$C_{20}H_{34}O_6Si$

(2R,3*R*,4*R*,5*R*)-Methyl 4-(benzyloxy)-5-(*tert*-butyldimethylsilyloxy)-2,3-dihydroxy hexanoate

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



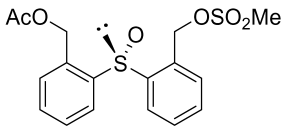
Ee = 100%
$[\alpha]_D$ = +60.0 (*c* 1.0, $CHCl_3$)
Source of chirality: enzymatic desymmetrization
Absolute configuration: (*R*)

$C_{16}H_{16}O_4S$

(*R*)-2-Acetoxymethylphenyl 2′-hydroxymethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



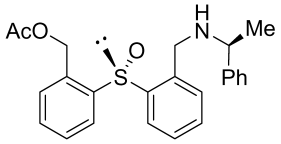
Ee = 100%
$[\alpha]_D$ = +12.4 (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*)

$C_{17}H_{18}O_6S_2$

(*S*)-2-Acetoxymethylphenyl 2′-methanosulfonyloxymethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



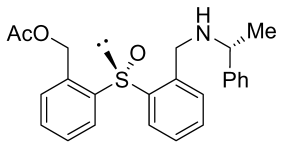
Ee = 100%
$[\alpha]_D$ = −36.2 (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{24}H_{25}NO_3S$

(R_S,S_C)-2-Acetoxymethylphenyl 2′-(α-phenylethyl)aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



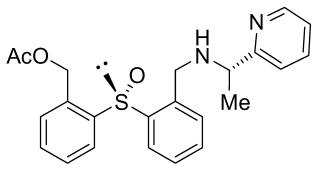
Ee = 100%
$[\alpha]_D$ = +17.3 (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,R_C)

$C_{24}H_{25}NO_3S$

(R_S,R_C)-2-Acetoxymethylphenyl 2′-(α-phenylethyl)aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



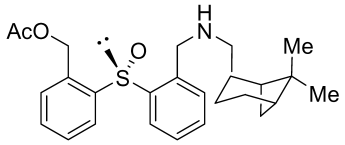
Ee = 100%
$[\alpha]_D$ = −38.1 (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{23}H_{24}N_2O_3S$

(R_S,S_C)-2-Acetoxymethylphenyl 2′-[1-(α-pyridyl)ethyl]aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



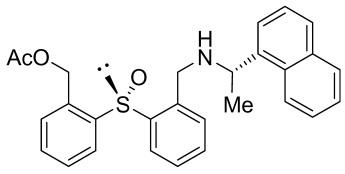
Ee = 100%
$[\alpha]_D$ = −19.0 (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_{C1},S_{C2},S_{C5})

$C_{26}H_{33}NO_3S$

(R_S,S_{C1},S_{C2},S_{C5})-2-Acetoxymethylphenyl 2′-(*cis*)-myrtanylaminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



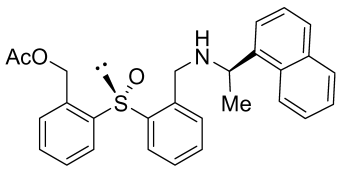
Ee = 100%
$[\alpha]_D$ = −12.0 (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{28}H_{27}NO_3S$

(R_S,S_C)-2-Acetoxymethylphenyl 2′-[1-(α-naphthyl)ethyl]aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



Ee = 100%
$[\alpha]_D = -4.1$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,R_C)

$C_{28}H_{27}NO_3S$

(R_S,R_C)-2-Acetoxymethylphenyl 2′-[1-(α-naphthyl)ethyl]aminomethylphenyl sulfoxide

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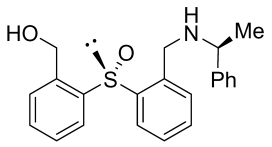
Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



Ee = 100%
$[\alpha]_D = -15.9$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{22}H_{23}NO_2S$

(R_S,S_C)-2-Hydroxymethylphenyl 2′-(α-phenylethyl)aminomethylphenyl sulfoxide

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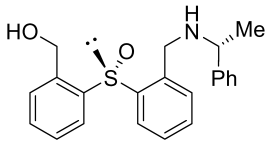
Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



Ee = 100%
$[\alpha]_D = -15.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,R_C)

$C_{22}H_{23}NO_2S$

(R_S,R_C)-2-Hydroxymethylphenyl 2′-(α-phenylethyl)aminomethylphenyl sulfoxide

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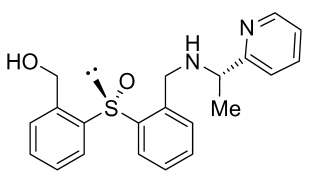
Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



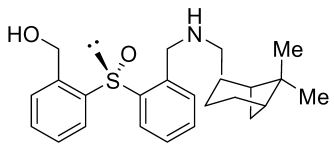
Ee = 100%
$[\alpha]_D = -17.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{21}H_{22}N_2O_2S$

(R_S,S_C)-2-Hydroxymethylphenyl 2′-[1-(α-pyridyl)ethyl]aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



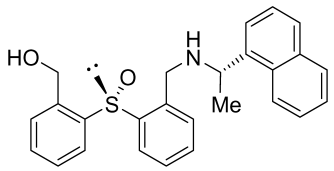
Ee = 100%
$[\alpha]_D = -8.8$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_{C1},S_{C2},S_{C5})

$C_{24}H_{31}NO_2S$

(R_S,S_{C1},S_{C2},S_{C5})-2-Hydroxymethylphenyl 2′-(*cis*)-myrtanylaminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



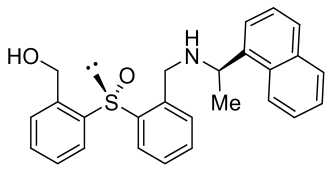
Ee = 100%
$[\alpha]_D = +13.2$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,S_C)

$C_{26}H_{25}NO_2S$

(R_S,S_C)-2-Hydroxymethylphenyl 2′-[1-(α-naphthyl)ethyl]aminomethylphenyl sulfoxide

Michał Rachwalski, Małgorzata Kwiatkowska, Józef Drabowicz, Marcin Kłos, Wanda M. Wieczorek, Małgorzata Szyrej, Lesław Sieroń, Piotr Kiełbasiński *

Tetrahedron: Asymmetry *19 (2008) 2096*



Ee = 100%
$[\alpha]_D = -30.7$ (*c* 1.0, $CHCl_3$)
Source of chirality: stereospecific synthesis
Absolute configuration: (R_S,R_C)

$C_{26}H_{25}NO_2S$

(R_S,R_C)-2-Hydroxymethylphenyl 2′-[1-(α-naphthyl)ethyl]aminomethylphenyl sulfoxide