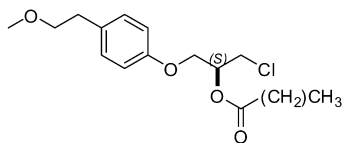


Ignacio Regla *, Axel Luviano-Jardón, Patricia Demare, Enrique Hong, Alejandro Torres-Gavilán, Agustín López-Munguía, Edmundo Castillo *

Tetrahedron: Asymmetry 19 (2008) 2439



$C_{30}H_{51}ClO_4$

(2S)-1-Chloro-3-[4-(2-methoxyethyl)phenoxy]-2-propanol-2-stearate

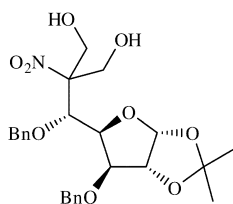
$[\alpha]_D^{20} = +13.6$ (c 1, $CHCl_3$)

Source of asymmetry: enzymatic resolution

Absolute configuration: (2S)

José M. Otero, Amalia M. Estévez, Raquel G. Soengas, Juan C. Estévez, Robert J. Nash, George W. J. Fleet, Ramón J. Estévez *

Tetrahedron: Asymmetry 19 (2008) 2443



$C_{25}H_{31}NO_9$

3,5-Di-O-benzyl-6-deoxy-6-C-hydroxymethyl-1,2-O-isopropylidene-6-nitro- α -D-glucopyranofuranose

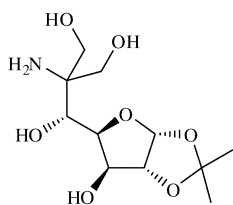
$[\alpha]_D^{20} = -67.8$ (c 1.70, chloroform)

Source of asymmetry: D-glucose

Absolute configuration: (1R,2R,3S,4R,5R)

José M. Otero, Amalia M. Estévez, Raquel G. Soengas, Juan C. Estévez, Robert J. Nash, George W. J. Fleet, Ramón J. Estévez *

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$C_{11}H_{21}NO_7$

6-Amino-6-deoxy-6-C-hydroxymethyl-1,2-O-isopropylidene- α -D-glucopyranofuranose

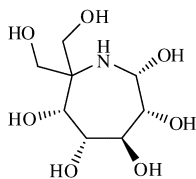
$[\alpha]_D^{20} = -20.3$ (c 2.33, methanol)

Source of asymmetry: D-glucose

Absolute configuration: (1R,2R,3S,4R,5R)

José M. Otero, Amalia M. Estévez, Raquel G. Soengas, Juan C. Estévez, Robert J. Nash, George W. J. Fleet, Ramón J. Estévez *

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$C_8H_{17}NO_7$

(2R,3R,4S,5R,6R)-7,7-Bis-(hydroxymethyl)azepane-2,3,4,5,6-pentaoal

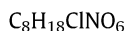
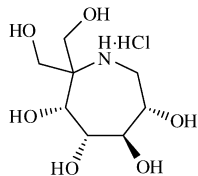
$[\alpha]_D^{20} = -13.9$ (c 1.32, methanol)

Source of asymmetry: D-glucose

Absolute configuration: (2R,3R,4S,5R,6R)

José M. Otero, Amalia M. Estévez, Raquel G. Soengas, Juan C. Estévez,
Robert J. Nash, George W. J. Fleet, Ramón J. Estévez*

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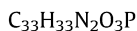
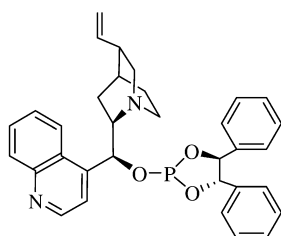


(3R,4R,5R,6S)-2,2-Bis-(hydroxymethyl)azepane-3,4,5,6-tetraol hydrochloride

$[\alpha]_D^{20} = -5.6$ (c 1.07, methanol)
Source of asymmetry: D-glucose
Absolute configuration: (3R,4R,5R,6S)

Qiao-Feng Wang, Wei He, Xue-Ying Liu, Hui Chen, Xiang-Yang Qin,
Sheng-Yong Zhang*

Tetrahedron: Asymmetry 19 (2008) 2447

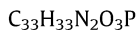
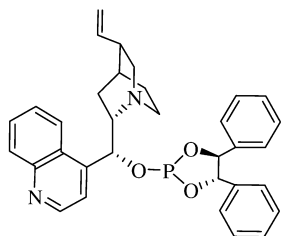


(4S,5S)-2-Cinchoninyl-4,5-diphenyl-1,3,2-dioxaphospholane

$[\alpha]_D^{25} = -108$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4S,5S)

Qiao-Feng Wang, Wei He, Xue-Ying Liu, Hui Chen, Xiang-Yang Qin,
Sheng-Yong Zhang*

Tetrahedron: Asymmetry 19 (2008) 2447

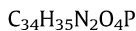
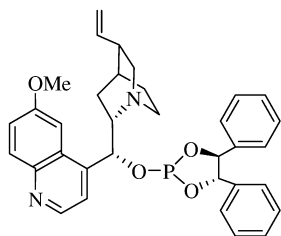


(4S,5S)-2-Cinchonidinyl-4,5-diphenyl-1,3,2-dioxaphospholane

$[\alpha]_D^{25} = -35$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4S,5S)

Qiao-Feng Wang, Wei He, Xue-Ying Liu, Hui Chen, Xiang-Yang Qin,
Sheng-Yong Zhang*

Tetrahedron: Asymmetry 19 (2008) 2447

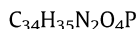
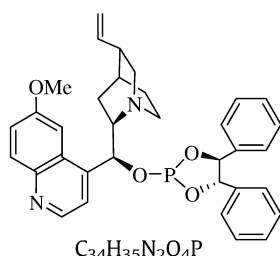


(4S,5S)-2-Quininy-4,5-diphenyl-1,3,2-dioxaphospholane

$[\alpha]_D^{25} = -29.5$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4S,5S)

Qiao-Feng Wang, Wei He, Xue-Ying Liu, Hui Chen, Xiang-Yang Qin,
Sheng-Yong Zhang *

Tetrahedron: Asymmetry 19 (2008) 2447



(4S,5S)-2-Quindinyl-4,5-diphenyl-1,3,2-dioxaphospholane

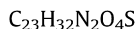
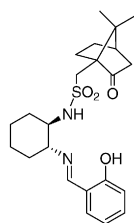
$[\alpha]_D^{25} = -69.6$ (c 1, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4S,5S)

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

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(1S,4S,1'R,2'R)-N-[(trans-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-2''-phenol

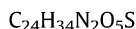
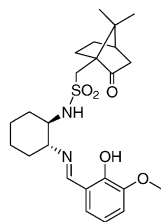
$[\alpha]_D^{26} = -59.0$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



(1S,4S,1'R,2'R)-N-[(trans-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-methoxy-2''-phenol

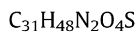
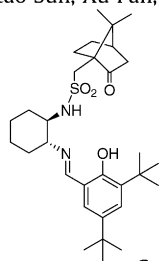
$[\alpha]_D^{26} = -66.0$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



(1S,4S,1'R,2'R)-N-[(trans-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3'',5''-di-tert-butyl-2''-phenol

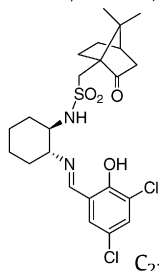
$[\alpha]_D^{26} = -44.8$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

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$C_{23}H_{30}Cl_2N_2O_4S$

(1S,4S,1'R,2'R)-N-[[*trans*-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3'',5''-dichloro-2''-phenol

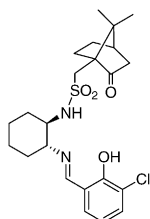
$[\alpha]_D^{26} = -60.2$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

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$C_{23}H_{31}ClN_2O_4S$

(1S,4S,1'R,2'R)-N-[[*trans*-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-chloro-2''-phenol

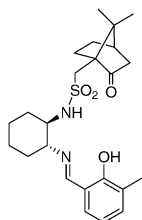
$[\alpha]_D^{26} = -71.4$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

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$C_{24}H_{34}N_2O_4S$

(1S,4S,1'R,2'R)-N-[[*trans*-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-methyl-2''-phenol

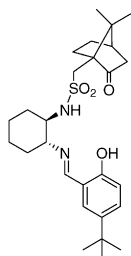
$[\alpha]_D^{26} = -64.3$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{27}H_{40}N_2O_4S$

(1S,4S,1'R,2'R)-N-[[*trans*-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-5''-tert-butyl-2''-phenol

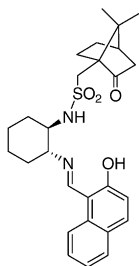
$[\alpha]_D^{26} = -78.4$ (c 0.2, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{27}H_{34}N_2O_4S$

(1S,4S,1'R,2'R)-N-[(trans-2'-(7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-naphthalen-2''-ol

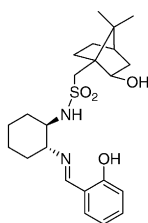
$[\alpha]_D^{26} = -28.5$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{23}H_{34}N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[(trans-2'-(2-Hydroxy-7,7-Dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-2''-phenol

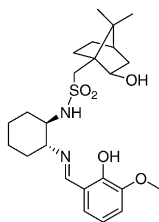
$[\alpha]_D^{26} = -61.5$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

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Tetrahedron: Asymmetry 19 (2008) 2451



$C_{24}H_{36}N_2O_5S$

(1S,2R,4S,1'R,2'R)-N-[(trans-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-methoxy-2''-phenol

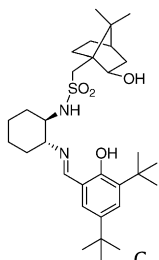
$[\alpha]_D^{26} = -42.2$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{31}H_{50}N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[(trans-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3'',5''-di-tert-butyl-2''-phenol

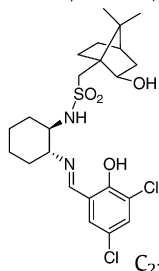
$[\alpha]_D^{26} = -49.0$ (c 0.1, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

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$C_{23}H_{32}Cl_2N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[[*trans*-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3'',5''-di-chloro-2''-phenol

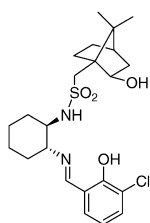
$[\alpha]_D^{26} = -62.3$ (c 0.2, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

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$C_{23}H_{33}ClN_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[[*trans*-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-chloro-2''-phenol

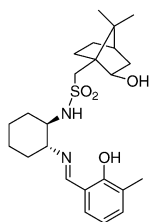
$[\alpha]_D^{26} = -45.9$ (c 0.2, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{24}H_{36}N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[[*trans*-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-3''-methyl-2''-phenol

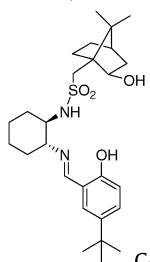
$[\alpha]_D^{26} = -64.3$ (c 0.2, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{27}H_{42}N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[[*trans*-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-5''-tert-butyl-2''-phenol

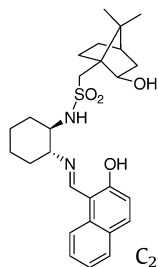
$[\alpha]_D^{26} = -78.2$ (c 0.2, CH_2Cl_2)

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Jiangtao Sun, Xu Pan, Zhenya Dai, Chengjian Zhu *

Tetrahedron: Asymmetry 19 (2008) 2451



$C_{27}H_{36}N_2O_4S$

(1S,2R,4S,1'R,2'R)-N-[[trans-2'-(2-Hydroxy-7,7-dimethyl-2-oxobicyclo[2.2.1]hept-1-yl-methylsulfonamino)cyclohexylimino]methyl]-naphthalen-2''-phenol

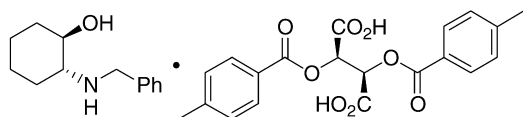
$[\alpha]_D^{26} = -25.4$ (c 0.1, CH_2Cl_2).

Absolute configuration: (1S,2R,4S,1'R,2'R)

Source of chirality: (R,R)-1,2-cyclohexyl-diamine; (1S)-(+)-10-camphorsulfonyl chloride

Ryuji Ogawa *, Toshihiro Fujino, Noriaki Hirayama, Kenichi Sakai

Tetrahedron: Asymmetry 19 (2008) 2458



$C_{33}H_{37}NO_9$

(1R,2R)-2-Benzylaminocyclohexanol: di-p-toluoyl-L-tartaric acid

De >99.5%

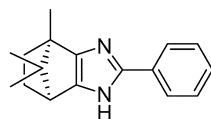
$[\alpha]_D^{20} = -110.3$ (c 1, MeOH)

Source of chirality: resolution

Absolute configuration: (1R,2R/2R,3R)

Jiří Kulhánek, Filip Bureš *, Petr Šimon, W. Bernd Schweizer

Tetrahedron: Asymmetry 19 (2008) 2462



$C_{17}H_{20}N_2$

(1R,7S)-1,10,10-Trimethyl-4-phenyl-3,5-diazatricyclo[5.2.1.0^{2,6}]deca-2(6),3-diene

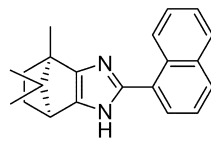
$[\alpha]_D^{20} = +46.3$ (c 1.0, CH_3OH)

Source of chirality: (1R)-(+)-camphor

Absolute configuration: (1R,7S)

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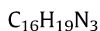
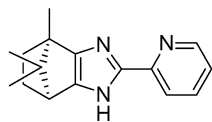
$C_{21}H_{22}N_2$

(1R,7S)-1,10,10-Trimethyl-4-naphthalen-2-yl-3,5-diazatricyclo[5.2.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = +41.4$ (c 0.5, CH_3OH)

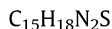
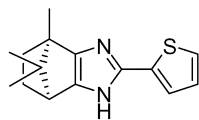
Source of chirality: (1R)-(+)-camphor

Absolute configuration: (1R,7S)



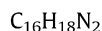
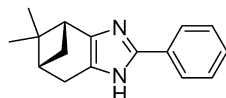
(1R,7S)-1,10,10-Trimethyl-4-pyridin-2-yl-3,5-diazatricyclo[5.2.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = +56.0$ (c 1.0, CH₃OH)
Source of chirality: (1R)-(+)-camphor
Absolute configuration: (1R,7S)



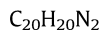
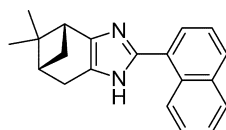
(1R,7S)-1,10,10-Trimethyl-4-thiophen-2-yl-3,5-diazatricyclo[5.2.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = +53.0$ (c 0.5, CH₃OH)
Source of chirality: (1R)-(+)-camphor
Absolute configuration: (1R,7S)



(1R,8R)-9,9-Dimethyl-4-phenyl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = -26.2$ (c 1.0, CH₃OH)
Source of chirality: (1S)-(-)-β-pinene
Absolute configuration: (1R,8R)

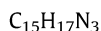
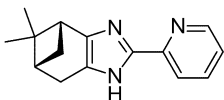


(1R,8R)-9,9-Dimethyl-4-naphthalen-1-yl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = -21.1$ (c 0.5, CH₃OH)
Source of chirality: (1S)-(-)-β-pinene
Absolute configuration: (1R,8R)

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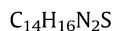
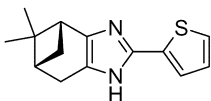


(1R,8R)-9,9-Dimethyl-4-pyridin-2-yl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = -17.0$ (c 1.0, CH₃OH)
Source of chirality: (1S)-(-)-β-pinene
Absolute configuration: (1R,8R)

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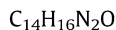
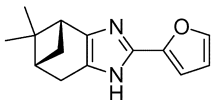


(1R,8R)-9,9-Dimethyl-4-thiophen-2-yl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = -20.5$ (c 0.5, CH₃OH)
Source of chirality: (1S)-(-)-β-pinene
Absolute configuration: (1R,8R)

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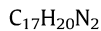
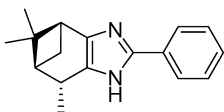


(1R,8R)-4-Furan-2-yl-9,9-dimethyl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = +33.0$ (c 0.5, CH₃OH)
Source of chirality: (1S)-(-)-β-pinene
Absolute configuration: (1R,8R)

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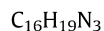
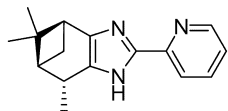


(1S,7R,8S)-7,9,9-Trimethyl-4-phenyl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

$[\alpha]_D^{20} = +55.0$ (c 1.0, CH₃OH)
Source of chirality: (1S,2S,3S,5R)-(+)-isopinocampheol
Absolute configuration: (1S,7R,8S)

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(1S,7R,8S)-7,9,9-Trimethyl-4-pyridin-2-yl-3,5-diazatricyclo[6.1.1.0^{2,6}]deca-2(6),3-diene

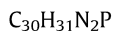
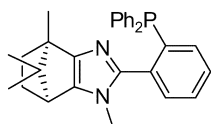
$[\alpha]_D^{20} = +8.0$ (c 1.0, CH₃OH)

Source of chirality: (1S,2S,3S,5R)-(+)-isopinocampheol

Absolute configuration: (1S,7R,8S)

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(1R,7S)-4-[2-(Diphenylphosphanyl)phenyl]-1,10,10-trimethyl-3,5-diazatricyclo[5.2.1.0^{2,6}]deca-2(6),3-diene

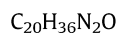
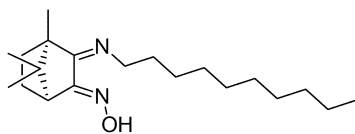
$[\alpha]_D^{20} = +9.0$ (c 0.5, CH₃OH)

Source of chirality: (1R)-(+)-camphor

Absolute configuration: (1R,7S)

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(1S,4R)-3-(Decylimino)-4,7,7-trimethylbicyclo[2.2.1]heptan-2-one oxime

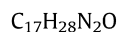
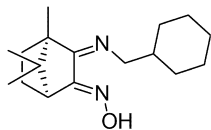
$[\alpha]_D^{20} = +59.9$ (c 0.5, CH₃OH)

Source of chirality: (1R)-(+)-camphor

Absolute configuration: (1R,7S)

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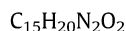
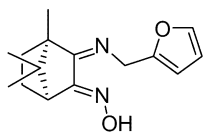


(1S,4R)-3-(Cyclohexylmethylimino)-4,7,7-trimethylbicyclo[2.2.1]heptan-2-one oxime

$[\alpha]_D^{20} = +72.4$ (c 0.5, CH₃OH)

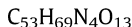
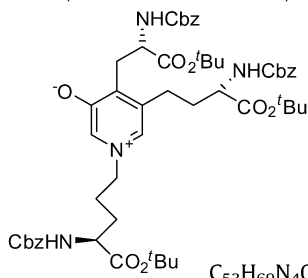
Source of chirality: (1R)-(+)-camphor

Absolute configuration: (1R,7S)



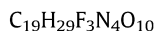
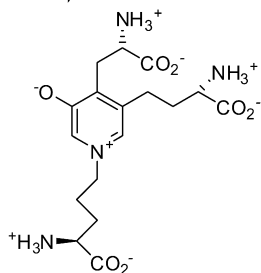
(1*S*,4*R*)-3-(Furan-2-ylmethylimino)-4,7,7-trimethylbicyclo[2.2.1]heptan-2-one oxime

$[\alpha]_D^{20} = +87.8$ (c 0.5, CH₃OH)
Source of chirality: (1*R*)-(+)-camphor
Absolute configuration: (1*R*,7*S*)



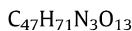
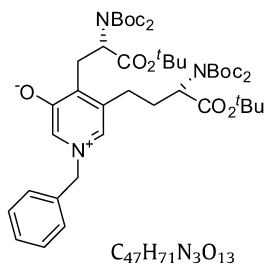
1-[(4*S*)-4-Benzyloxycarbonylamino-4-*tert*-butoxycarbonylbutyl]-4-[(2*S*)-2-benzyloxycarbonylamino-2-*tert*-butoxycarbonylethyl]-5-[(3*S*)-3-benzyloxycarbonylamino-3-*tert*-butoxycarbonylpropyl] pyridinium-3-olate

$[\alpha]_D^{20} = +4.5$ (c 1, CHCl₃)
Source of chirality: L-glutamic acid
Absolute configuration: (2*S*,3'*S*,4'*S*)



1-[(4*S*)-4-Amino-4-carboxylbutyl]-4-[(2*S*)-2-amino-2-carboxyethyl]-5-[(3*S*)-3-amino-3-carboxypropyl] pyridinium-3-olate

$[\alpha]_D^{20} = +22.2$ (c 0.9, H₂O)
Source of chirality: L-glutamic acid
Absolute configuration: (2*S*,3'*S*,4'*S*)

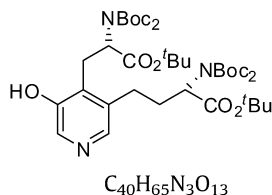


1-Benzyl-4-[(2*S*)-2-bis(*tert*-butoxycarbonylamino)-2-*tert*-butoxycarbonylethyl]-5-[(3*S*)-3-bis(*tert*-butoxycarbonylamino)-3-*tert*-butoxycarbonylpropyl] pyridinium-3-olate

$[\alpha]_D^{20} = -34.0$ (c 1, CHCl₃)
Source of chirality: L-glutamic acid
Absolute configuration: (2*S*,3'*S*)

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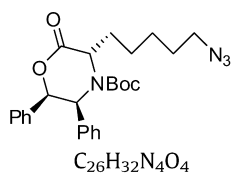


$[\alpha]_D^{20} = -11.3$ (c 1, $CHCl_3$)
Source of chirality: L-glutamic acid
Absolute configuration: (2S,3'S)

4-[(2S)-2-Bis(*tert*-butoxycarbonylamino)-2-*tert*-butoxycarbonyl-ethyl]-5-[(3S)-3-bis(*tert*-butoxycarbonylamino)-3-*tert*-butoxycarbonyl-propyl]-3-hydroxypyridine

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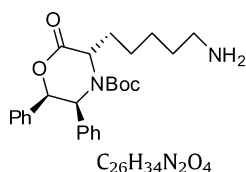


$[\alpha]_D^{20} = -61.2$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3S,5S,6R)

tert-Butyl (3S,5S,6R)-3-(5-azidopentyl)-2-oxo-5,6-diphenylmorpholine-4-carboxylate

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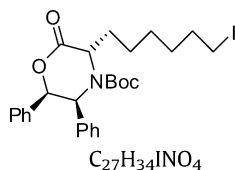


$[\alpha]_D^{20} = -54.9$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3S,5S,6R)

tert-Butyl (3S,5S,6R)-3-(5-aminopentyl)-2-oxo-5,6-diphenylmorpholine-4-carboxylate

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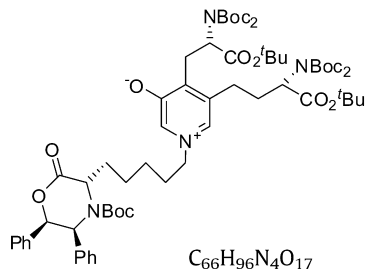


$[\alpha]_D^{20} = -46.7$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3S,5S,6R)

tert-Butyl (3S,5S,6R)-3-(6-iodohexyl)-2-oxo-5,6-diphenylmorpholine-4-carboxylate

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$[\alpha]_D^{20} = -26.7$ (c 1, $CHCl_3$)

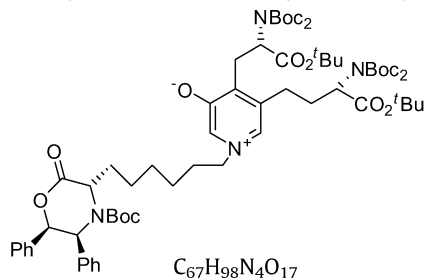
Source of chirality: L-glutamic acid, Williams glycine template

Absolute configuration: (2*S*,3'*S*,3''*S*,5''*S*,6''*R*)

1-[(3*S*,5*S*,6*R*)-5-(5,6-Dibenzyl-4-*tert*-butoxycarbonyl-2-oxomorpholin-3-yl)pentyl]-4-[(2*S*)-2-bis(*tert*-butoxycarbonylamino)-2-*tert*-butoxycarbonylpropyl]pyridinium-3-olate

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$[\alpha]_D^{20} = -30.6$ (c 1, $CHCl_3$)

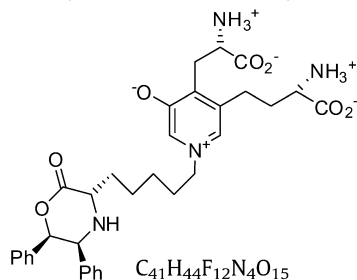
Source of chirality: L-glutamic acid, Williams glycine template

Absolute configuration: (2*S*,3'*S*,3''*S*,5''*S*,6''*R*)

1-[(3*S*,5*S*,6*R*)-6-(5,6-Dibenzyl-4-*tert*-butoxycarbonyl-2-oxomorpholin-3-yl)hexyl]-4-[(2*S*)-2-bis(*tert*-butoxycarbonylamino)-2-*tert*-butoxycarbonylpropyl]pyridinium-3-olate

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$[\alpha]_D^{20} = -10.6$ (c 1, CD_3OD)

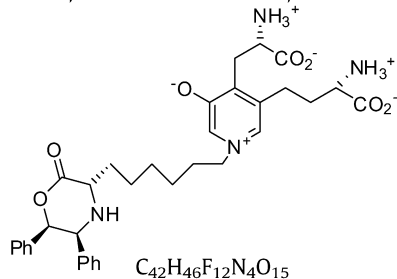
Source of chirality: L-glutamic acid, Williams glycine template

Absolute configuration: (2*S*,3'*S*,3''*S*,5''*S*,6''*R*)

1-[(3*S*,5*S*,6*R*)-5-(5,6-Dibenzyl-2-oxomorpholin-3-yl)pentyl]-4-[(2*S*)-2-amino-2-carboxyethyl]-5-[(3*S*)-3-amino-3-carboxypropyl]pyridinium-3-olate

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$[\alpha]_D^{20} = -10.5$ (c 1, CH_3OH)

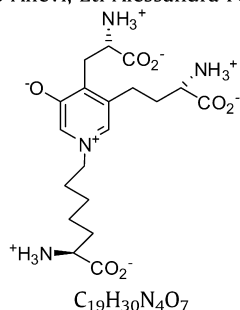
Source of chirality: L-glutamic acid, Williams glycine template

Absolute configuration: (2*S*,3'*S*,3''*S*,5''*S*,6''*R*)

1-[(3*S*,5*S*,6*R*)-6-(5,6-Dibenzyl-2-oxomorpholin-3-yl)hexyl]-4-[(2*S*)-2-amino-2-carboxyethyl]-5-[(3*S*)-3-amino-3-carboxypropyl]pyridinium-3-olate

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$[\alpha]_D^{20} = +15.2$ (c 0.5, H_2O)

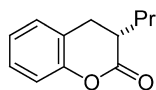
Source of chirality: L-glutamic acid, Williams glycine template

Absolute configuration: (2S,3'S,6''S)

1-[(6S)-6-Amino-6-carboxylhexyl]-4-[(2S)-2-amino-2-carboxyethyl]-5-[(3S)-3-amino-3-carboxypropyl] pyridinium-3-olate

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(S)-3-Propyldihydrocoumarin

Ee = 61%

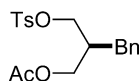
$[\alpha]_D = -12.4$ (c 1.25, $CHCl_3$)

Source of chirality: enantioselective reaction

Absolute configuration: (S)

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(S)-2-Benzyl-3-toluenesulfonyloxypropyl acetate

Ee: not determined

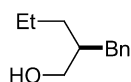
$[\alpha]_D = +4.8$ (c 1.13, $CHCl_3$)

Source of chirality: (R)-2-benzyl-3-hydroxypropyl

Absolute configuration: (S)

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(S)-2-Benzylpentanol

Ee: not determined

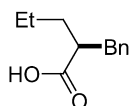
$[\alpha]_D = -9.9$ (c 1.09, $MeOH$)

Source of chirality: (R)-2-benzyl-3-hydroxypropyl acetate

Absolute configuration: (S)

Masatoshi Murakata *, Toshiaki Jono, Tetsuya Shoji, Akiko Moriya, Yoko Shirai

Tetrahedron: Asymmetry 19 (2008) 2479



$C_{12}H_{16}O_2$

(S)-2-Benzylpentanoic acid

Ee: not determined

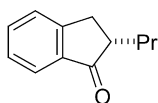
$[\alpha]_D = +19.5$ (c 2.21, c-hexane)

Source of chirality: (R)-2-benzyl-3-hydroxypropyl

Absolute configuration: (S)

Masatoshi Murakata *, Toshiaki Jono, Tetsuya Shoji, Akiko Moriya, Yoko Shirai

Tetrahedron: Asymmetry 19 (2008) 2479



$C_{12}H_{14}O$

(S)-2-Propylindanone

Ee: not determined

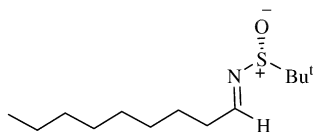
$[\alpha]_D = +32.5$ (c 0.71, benzene)

Source of chirality: (R)-2-benzyl-3-hydroxypropyl

Absolute configuration: (S)

Raquel Almansa, David Guijarro *, Miguel Yus *

Tetrahedron: Asymmetry 19 (2008) 2484



$C_{13}H_{27}NOS$

(R)-2-Methyl-N-nonylidene-2-sulfinamide

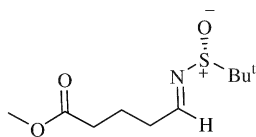
$[\alpha]_D^{20} = -207.0$ (c 0.4, $CHCl_3$)

Source of chirality: (R)-tert-butanesulfinamide

Absolute configuration: (R)

Raquel Almansa, David Guijarro *, Miguel Yus *

Tetrahedron: Asymmetry 19 (2008) 2484



$C_{10}H_{19}NO_3S$

(R)-Methyl 5-[(tert-butylsulfinyl)imino]pentanoate

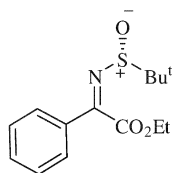
$[\alpha]_D^{20} = -206.4$ (c 1.7, $CHCl_3$)

Source of chirality: (R)-tert-butanesulfinamide

Absolute configuration: (R)

Raquel Almansa, David Guijarro *, Miguel Yus *

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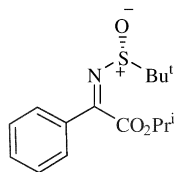
C₁₄H₁₉NO₃S

(*R*)-Ethyl [(*tert*-butylsulfinyl)imino](phenyl)acetate

$[\alpha]_D^{20} = -95.8$ (c 0.9, CHCl₃)
Source of chirality: (*R*)-*tert*-butanesulfinamide
Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

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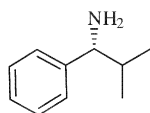
C₁₅H₂₁NO₃S

(*R*)-Isopropyl [(*tert*-butylsulfinyl)imino](phenyl)acetate

$[\alpha]_D^{20} = -115.0$ (c 1.0, CHCl₃)
Source of chirality: (*R*)-*tert*-butanesulfinamide
Absolute configuration: (*R*)

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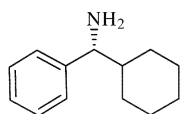
C₁₀H₁₅N

(*R*)-2-Methyl-1-phenylpropan-1-amine

Ee = 88%
 $[\alpha]_D^{20} = +6.4$ (c 0.6, CHCl₃)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

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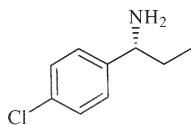
C₁₃H₁₉N

(*R*)-Cyclohexyl(phenyl)methanamine

Ee = 86%
 $[\alpha]_D^{20} = +9.3$ (c 1.0, EtOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

Tetrahedron: Asymmetry 19 (2008) 2484



$C_9H_{12}NCl$

(*R*)-1-(4-Chlorophenyl)propan-1-amine

Ee = 96%

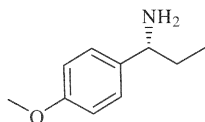
$[\alpha]_D^{20} = +15.0$ (c 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

Tetrahedron: Asymmetry 19 (2008) 2484



$C_{10}H_{15}NO$

(*R*)-1-(4-Methoxyphenyl)propan-1-amine

Ee = 92%

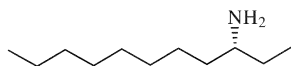
$[\alpha]_D^{20} = +15.0$ (c 1.0, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

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$C_{11}H_{25}N$

(*R*)-Undecan-3-amine

Ee = 40%

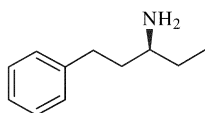
$[\alpha]_D^{20} = -2.3$ (c 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

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$C_{11}H_{17}N$

(*S*)-1-Phenylpentan-3-amine

Ee = 42%

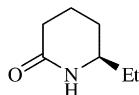
$[\alpha]_D^{20} = +7.5$ (c 1.0, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Raquel Almansa, David Guijarro *, Miguel Yus *

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$C_7H_{13}NO$

(*R*)-6-Ethylpiperidin-2-one

Ee = 62%

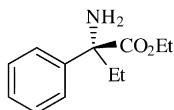
$[\alpha]_D^{20} = -3.0$ (c 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

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$C_{12}H_{17}NO_2$

(*R*)-Ethyl 2-amino-2-phenylbutanoate

Ee = 82%

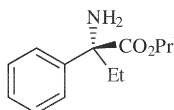
$[\alpha]_D^{20} = -11.6$ (c 1.0, EtOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Raquel Almansa, David Guijarro *, Miguel Yus *

Tetrahedron: Asymmetry 19 (2008) 2484



$C_{13}H_{19}NO_2$

(*R*)-Isopropyl 2-amino-2-phenylbutanoate

Ee = 58%

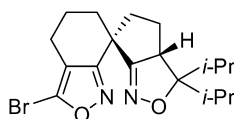
$[\alpha]_D^{20} = -56.0$ (c 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



$C_{18}H_{25}BrN_2O_2$

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

Ee >99%

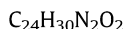
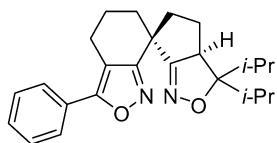
$[\alpha]_D^{19} = +177.3$ (c 0.500, $CHCl_3$)

Source of chirality: resolution by HPLC (Chiralpak AD)

Relative configuration: (*R,S*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

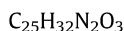
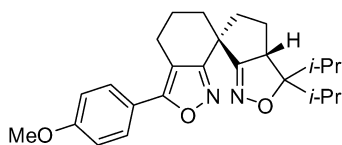
$[\alpha]_{\text{D}}^{22} = -185.5$ (c 0.605, CHCl_3)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

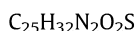
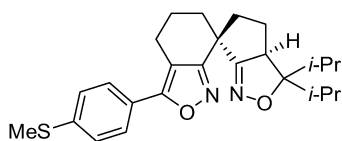
$[\alpha]_{\text{D}}^{21} = +182.0$ (c 0.500, CHCl_3)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*R,S*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

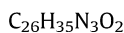
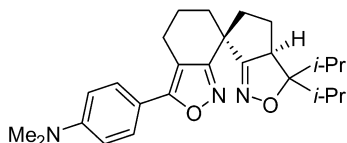
$[\alpha]_{\text{D}}^{22} = -174.0$ (c 0.500, CHCl_3)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

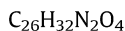
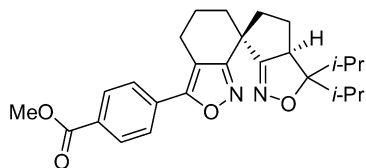
$[\alpha]_{\text{D}}^{23} = -157.9$ (c 0.615, CHCl_3)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

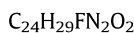
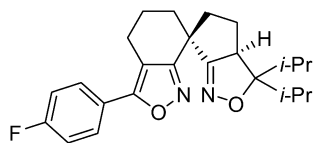
$[\alpha]_D^{23} = -157.7$ (c 0.615, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

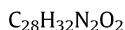
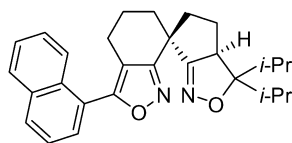
$[\alpha]_D^{23} = -153.9$ (c 0.730, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

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

Ee >99%

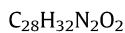
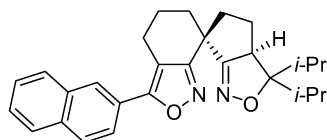
$[\alpha]_D^{24} = -138.2$ (c 0.455, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

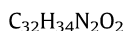
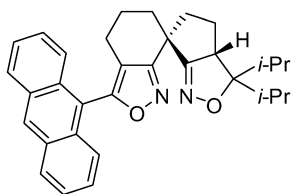
$[\alpha]_D^{23} = -87.1$ (c 0.465, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



(*R,S*)-3-(9-Anthryl)-3',3'-diisopropyl-3',3a',4',5,5',6-hexahydro-4*H*-spiro[2,1-benzisoxazole-7,6'-cyclopenta[*c*]isoxazole]

Ee >99%

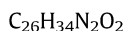
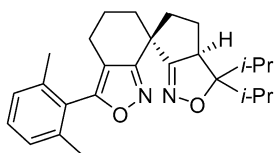
$[\alpha]_D^{23} = +124.5$ (c 0.805, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*R,S*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

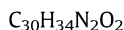
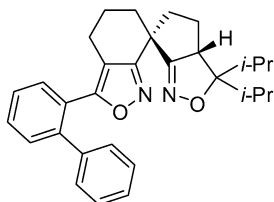
$[\alpha]_D^{24} = -140.8$ (c 0.500, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

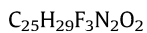
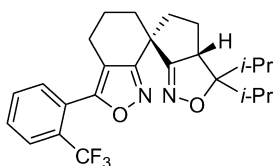
$[\alpha]_D^{24} = +158.1$ (c 0.500, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*R,S*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

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

Ee >99%

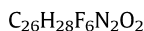
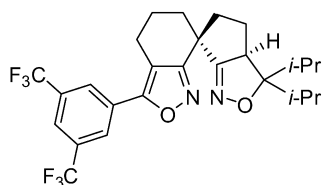
$[\alpha]_D^{24} = +157.2$ (c 0.500, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*R,S*)

Kazuhiro Takenaka, Shuhei Nakatsuka, Tetsuya Tsujihara, Priti S. Koranne, Hiroaki Sasai *

Tetrahedron: Asymmetry 19 (2008) 2492



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

Ee >99%

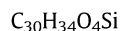
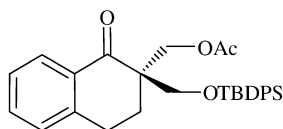
$[\alpha]_D^{24} = -134.7$ (c 0.500, $CHCl_3$)

Source of chirality: derivatized from the chiral precursor

Relative configuration: (*S,R*)

Tridib Mahapatra, Tapas Das, Samik Nanda *

Tetrahedron: Asymmetry 19 (2008) 2497



Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 98%

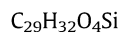
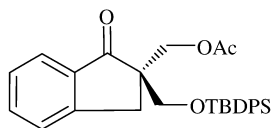
$[\alpha]_D^{28} = +6.7$ (c 0.2, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*S*)

Tridib Mahapatra, Tapas Das, Samik Nanda *

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Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-1-oxo-indan-2-ylmethyl ester

Ee = 98%

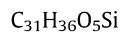
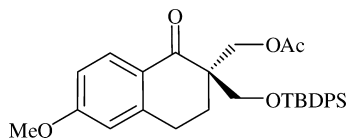
$[\alpha]_D^{28} = +15.8$ (c 0.24, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*S*)

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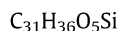
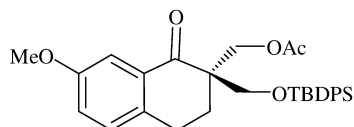
Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-6-methoxy-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 96%

$[\alpha]_D^{28} = +11.1$ (c 0.2, MeOH)

Source of chirality: enzymatic transesterification

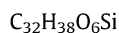
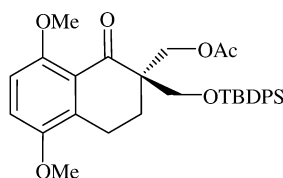
Absolute configuration: (2*S*)

Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-7-methoxy-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 96%

 $[\alpha]_{\text{D}}^{28} = +23.8$ (c 0.2, MeOH)

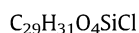
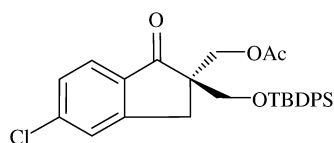
Source of chirality: enzymatic transesterification

Absolute configuration: (2*S*)Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-5,8-dimethoxy-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 93%

 $[\alpha]_{\text{D}}^{28} = +13.3$ (c 0.4, MeOH)

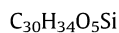
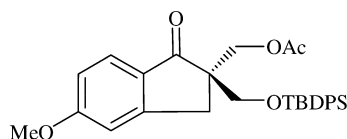
Source of chirality: enzymatic transesterification

Absolute configuration: (2*S*)Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-5-chloro-1-oxo-indan-2-ylmethyl ester

Ee = 96%

 $[\alpha]_{\text{D}}^{28} = +13.1$ (c 0.2, MeOH)

Source of chirality: enzymatic transesterification

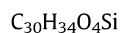
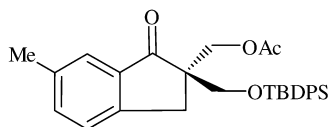
Absolute configuration: (2*S*)Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-5-methoxy-1-oxo-indan-2-ylmethyl ester

Ee = 93%

 $[\alpha]_{\text{D}}^{28} = +18.3$ (c 0.4, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2*S*)

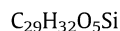
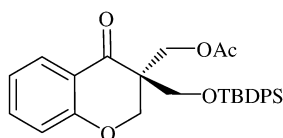
Acetic acid 2-(*tert*-butyl-diphenyl-silanyloxymethyl)-6-methyl-1-oxo-indan-2-ylmethyl ester

Ee = 98%

 $[\alpha]_{\text{D}}^{28} = +10.6$ (c 0.4, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2S)

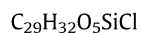
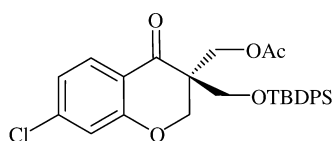
Acetic acid 3-(*tert*-butyl-diphenyl-silanyloxymethyl)-4-oxo-chroman-3-ylmethyl ester

Ee = 98%

 $[\alpha]_{\text{D}}^{28} = +11.0$ (c 0.2, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3S)

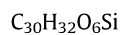
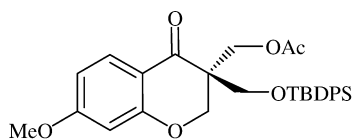
Acetic acid 3-(*tert*-butyl-diphenyl-silanyloxymethyl)-7-chloro-4-oxo-chroman-3-ylmethyl ester

Ee = 88%

 $[\alpha]_{\text{D}}^{28} = +12.8$ (c 1.0, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3S)

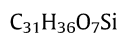
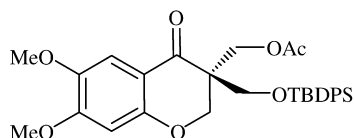
Acetic acid 3-(*tert*-butyl-diphenyl-silanyloxymethyl)-7-methoxy-4-oxo-chroman-3-ylmethyl ester

Ee = 93%

 $[\alpha]_{\text{D}}^{28} = +14.2$ (c 0.1 MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3S)

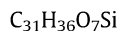
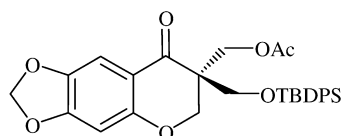
Acetic acid 3-(*tert*-butyl-diphenyl-silanyloxymethyl)-6,7-dimethoxy-4-oxo-chroman-3-ylmethyl ester

Ee = 94%

 $[\alpha]_{\text{D}}^{28} = +3.6$ (c 0.18 MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3S)

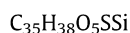
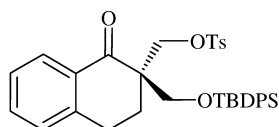
Acetic acid 7-(*tert*-butyl-diphenyl-silanyloxymethyl)-8-oxo-7,8-dihydro-6H-[1,3]dioxolo[4,5-g]chromen-7-ylmethyl ester

Ee = 95%

 $[\alpha]_{\text{D}}^{28} = +3.9$ (c 0.36, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (3S)

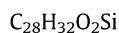
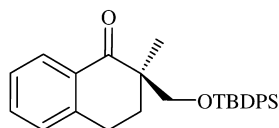
Toluene-4-sulfonic acid (*R*)-2-(*tert*-butyl-diphenyl-silanyloxymethyl)-1-oxo-1,2,3,4-tetrahydro-naphthalen-2-ylmethyl ester

Ee = 98%

 $[\alpha]_{\text{D}}^{28} = +33.9$ (c 0.9, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

(*R*)-2-(*tert*-Butyl-diphenyl-silanyloxymethyl)-2-methyl-3,4-dihydro-2H-naphthalen-1-one

Ee = 98%

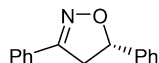
 $[\alpha]_{\text{D}}^{28} = +21.2$ (c 0.9, MeOH)

Source of chirality: enzymatic transesterification

Absolute configuration: (2R)

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$C_{15}H_{13}NO$

(S)-3,5-Diphenyl-2-isoxazoline

Ee = 21%

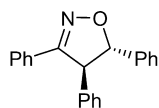
$[\alpha]_D^{20} = +52.1$ (c 3.245, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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$C_{21}H_{17}NO$

(4S,5S)-3,r-4,t-5-Triphenyl-2-isoxazoline

Ee = 7%

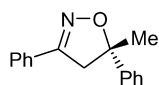
$[\alpha]_D^{20} = +34.8$ (c 4.855, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4S,5S)

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$C_{16}H_{15}NO$

(S)-3,5-Diphenyl-5-methyl-2-isoxazoline

Ee = 17%

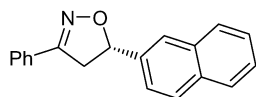
$[\alpha]_D^{20} = +10.0$ (c 5.51, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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$C_{19}H_{15}NO$

(S)-5-(2-Naphthyl)-3-phenyl-2-isoxazoline

Ee = 15%

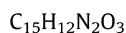
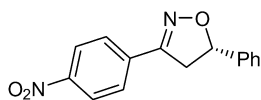
$[\alpha]_D^{20} = +40.3$ (c 4.07, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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(S)-3-(4-Nitrophenyl)-5-phenyl-2-isoxazoline

Ee = 13%

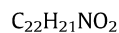
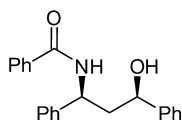
$[\alpha]_D^{20} = +36.1$ (c 2.935, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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(1R,3S)-3-Benzoylamino-1,3-diphenyl-1-propanol

Ee = 74%

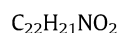
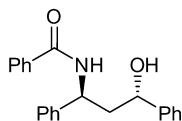
$[\alpha]_D^{20} = +21.15$ (c 1.655, acetone)

Source of chirality: asymmetric synthesis

Absolute configuration: (1R,3S)

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(1S,3S)-3-Benzoylamino-1,3-diphenyl-1-propanol

Ee = 81%

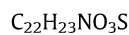
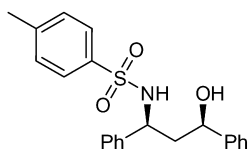
$[\alpha]_D^{20} = -13.0$ (c 1.15, acetone)

Source of chirality: asymmetric synthesis

Absolute configuration: (1S,3S)

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(1R,3S)-1,3-Diphenyl-3-tosylamino-1-propanol

Ee = 68%

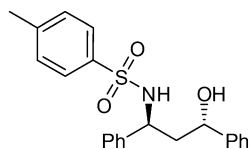
$[\alpha]_D^{20} = -13.5$ (c 2.445, acetone)

Source of chirality: asymmetric synthesis

Absolute configuration: (1R,3S)

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$C_{22}H_{23}NO_3S$

(1S,3S)-1,3-Diphenyl-3-tosylamino-1-propanol

Ee = 78%

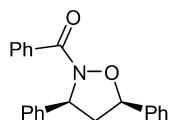
$[\alpha]_D^{20} = -137.3$ (c 0.59, acetone)

Source of chirality: asymmetric synthesis

Absolute configuration: (1S,3S)

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$C_{22}H_{19}NO_2$

(3S,5R)-N-Benzoyl-3,5-diphenylisoxazolidine

Ee = 65%

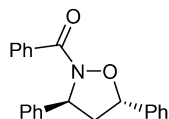
$[\alpha]_D^{20} = -4.5$ (c 7.08, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5R)

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$C_{22}H_{19}NO_2$

(3S,5S)-N-Benzoyl-3,5-diphenylisoxazolidine

Ee = 74%

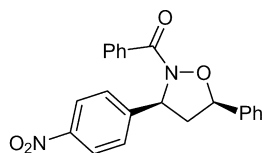
$[\alpha]_D^{20} = -80.3$ (c 3.95, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5S)

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$C_{22}H_{18}N_2O_4$

(3S,5R)-N-Benzoyl-3-(4-nitrophenyl)-5-phenylisoxazolidine

Ee = 70%

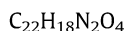
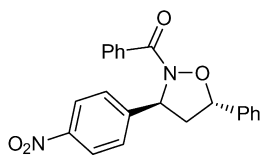
$[\alpha]_D^{20} = +5.8$ (c 4.83, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5R)

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(3S,5S)-N-Benzoyl-3-(4-nitrophenyl)-5-phenylisoxazolidine

Ee = 71%

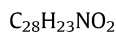
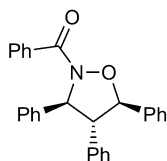
$[\alpha]_D^{20} = -60.2$ (c 1.795, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5S)

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(3S,4R,5R)-N-Benzoyl-3,4,5-triphenylisoxazolidine

Ee = 76%

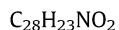
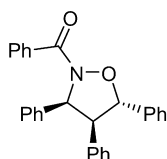
$[\alpha]_D^{20} = -5.3$ (c 4.535, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,4R,5R)

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(3S,4S,5S)-N-Benzoyl-3,4,5-triphenylisoxazolidine

Ee = 71%

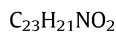
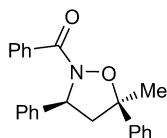
$[\alpha]_D^{20} = +86.9$ (c 3.705, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,4S,5S)

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(3S,5R)-N-Benzoyl-3,5-diphenyl-5-methylisoxazolidine

Ee = 58%

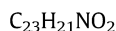
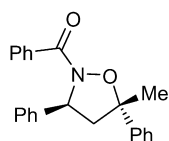
$[\alpha]_D^{20} = -5.3$ (c 4.375, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5R)

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(3S,5S)-N-Benzoyl-3,5-diphenyl-5-methylisoxazolidine

Ee = 60%

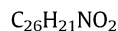
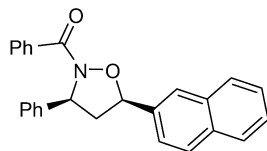
$[\alpha]_D^{20} = -75.0$ (c 1.92, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5S)

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(3S,5R)-N-Benzoyl-5-(2-naphthyl)-3-phenylisoxazolidine

Ee = 66%

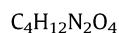
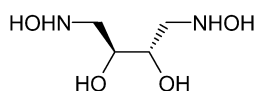
$[\alpha]_D^{20} = +21.4$ (c 3.555, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (3S,5R)

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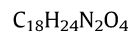
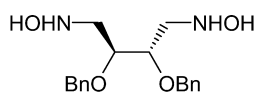
(2S,3S)-2,3-Dihydroxy-1,4-bis(hydroxyamino)butane

$[\alpha]_D = +54.3$ (c 1.44, H_2O)

Configuration: (R,R)-tartaric acid

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(2S,3S)-2,3-Benzyloxy-1,4-bis(hydroxyamino)butane

$[\alpha]_D = -36.0$ (c 1.03, $MeOH$)

Configuration: (R,R)-tartaric acid