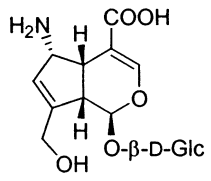
Christine Mouriès, Brigitte Deguin, Foudil Lamari, Marie-José Foglietti, François Tillequin* and Michel Koch

Tetrahedron: Asymmetry *14 (2003) 1083*



$C_{16}H_{23}O_{10}N$

(6*R*)-Aminogeniposidic acid

Ee = 100%

$[\alpha]_D^{20} = -15$ (*c* 0.9, H_2O)

Source of chirality: chiral pool from aucubin

Absolute configuration: (1*S*,5*S*,6*R*,9*S*)

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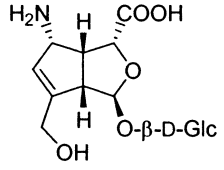
Tetrahedron: Asymmetry *14 (2003) 1083*



$C_{15}H_{23}O_{10}N$

(1*R*,3*S*,3a*S*,6*R*,6a*R*)-6-Amino-β-D-glucopyrannosyl-3,3a,6,6a-tetrahydro-1*H*-cyclopenta[1,2*c*]furan-1-carboxylic acid

Ee = 100%

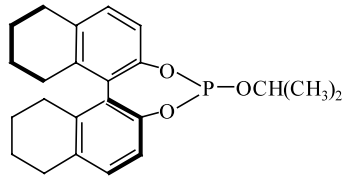
$[\alpha]_D^{20} = -33$ (*c* 0.1, H_2O)

Source of chirality: chiral pool from aucubin

Absolute configuration: (1*R*,3*S*,3a*S*,6*R*,6a*R*)

Ildikó Gergely, Csaba Hegedüs, Henrik Gulyás, Áron Szöllősy, Axel Monsees, Thomas Riermeier and József Bakos*

Tetrahedron: Asymmetry *14 (2003) 1087*



$C_{23}H_{27}O_3P$

(*S*)-2-[(1-Methyl)ethoxy]-5,5′,6,6′,7,7′,8,8′-octahydrodinaphtho[2,1-*d*:1′,2′-*f*][1,3,2]dioxaphosphepine

$[\alpha]_D = +232.8$ (*c* 1.16, CH_2Cl_2)

Source of chirality: (*S*)-(−)-1,1′-bi-2-naphthol

Absolute configuration: S_P

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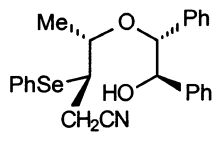
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{25}H_{25}NO_2Se$

(3*R*,4*S*)-4-{[(1*R*,2*R*)-2-Hydroxy-1,2-diphenylethyl]oxy}-3-(phenylseleno)pentanenitrile

$[\alpha]_D^{24} = -45.3$ (*c* 1.68, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 3*R*,4*S*,1*R*,2*R*

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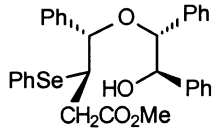
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{22} = -1.8$ (*c* 0.10, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 3*R*,4*S*,1*R*,2*R*

$C_{31}H_{30}O_4Se$

Methyl (3*R*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxy-1,2-diphenylethyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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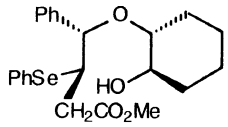
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{20} = +17.6$ (*c* 1.47, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 3*R*,4*S*,1*R*,2*R*

$C_{23}H_{28}O_4Se$

Methyl (3*R*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxycyclohexyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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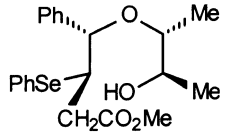
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{27} = +9.3$ (*c* 0.81, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 3*R*,4*S*,1*R*,2*R*

$C_{21}H_{26}O_4Se$

Methyl (3*R*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxy-1-methylpropyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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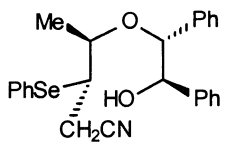
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{25} = +46.3$ (*c* 2.07, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 3*S*,4*R*,1*R*,2*R*

$C_{25}H_{25}NO_2Se$

(3*S*,4*R*)-4-{[(1*R*,2*R*)-2-Hydroxy-1,2-diphenylethyl]oxy}-3-(phenylseleno)pentanenitrile

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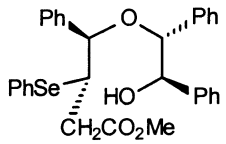
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{26} = -99.9$ (*c* 1.51, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 3*S*,4*R*,1*R*,2*R*

$C_{31}H_{30}O_4Se$

Methyl (3*S*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxy-1,2-diphenylethyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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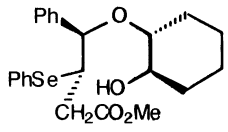
Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{21} = -47.4$ (*c* 1.66, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 3*S*,4*R*,1*R*,2*R*

$C_{23}H_{28}O_4Se$

Methyl (3*S*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxycyclohexyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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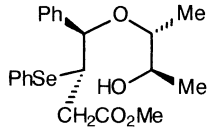
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry *14 (2003) 1095*



$[\alpha]_D^{24} = -74.6$ (*c* 1.15, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 3*S*,4*R*,1*R*,2*R*

$C_{21}H_{26}O_4Se$

Methyl (3*S*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxy-1-methylpropyl]oxy}-4-phenyl-3-(phenylseleno)butanoate

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Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

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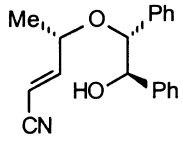

$[\alpha]_D^{23} = -101.6$ (*c* 1.95, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 4*S*,1*R*,2*R*

$C_{19}H_{19}NO_2$

(2*E*,4*S*)-4-{[(1*R*,2*R*)-2-Hydroxy-1,2-diphenylethyl]oxy}pent-2-enenitrile

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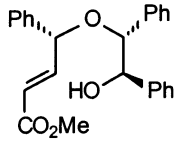
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{25}H_{24}O_4$

Methyl (2*E*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxy-1,2-diphenylethyl]oxy}-4-phenylbut-2-enoate

$[\alpha]_D^{25} = -27.0$ (*c* 1.95, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 4*R*,1*R*,2*R*

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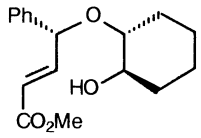
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{17}H_{22}O_4$

Methyl (2*E*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxycyclohexyl]oxy}-4-phenylbut-2-enoate

$[\alpha]_D^{23} = +7.3$ (*c* 2.13, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 4*R*,1*R*,2*R*

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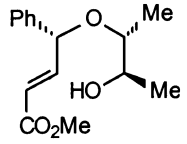
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{15}H_{20}O_4$

Methyl (2*E*,4*R*)-4-{[(1*R*,2*R*)-2-hydroxy-1-methylpropyl]oxy}-4-phenylbut-2-enoate

$[\alpha]_D^{29} = +5.3$ (*c* 1.18, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 4*R*,1*R*,2*R*

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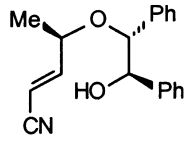
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{19}H_{19}NO_2$

(2*E*,4*R*)-4-{[(1*R*,2*R*)-2-Hydroxy-1,2-diphenylethyl]oxy}pent-2-enenitrile

$[\alpha]_D^{22} = +69.5$ (*c* 1.06, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 4*R*,1*R*,2*R*

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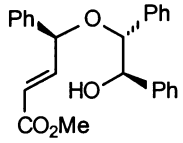
$[\alpha]_D^{24} = -69.2$ (*c* 1.21, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 4*S*,1*R*,2*R*



$C_{25}H_{24}O_4$

Methyl (2*E*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxy-1,2-diphenylethyl]oxy}-4-phenylbut-2-enoate

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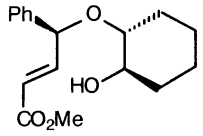
$[\alpha]_D^{25} = -98.8$ (*c* 1.74, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 4*S*,1*R*,2*R*



$C_{17}H_{22}O_4$

Methyl (2*E*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxycyclohexyl]oxy}-4-phenylbut-2-enoate

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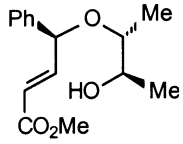
$[\alpha]_D^{26} = -118.2$ (*c* 1.02, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 4*S*,1*R*,2*R*



$C_{15}H_{20}O_4$

Methyl (2*E*,4*S*)-4-{[(1*R*,2*R*)-2-hydroxy-1-methylpropyl]oxy}-4-phenylbut-2-enoate

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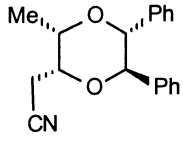
$[\alpha]_D^{23} = +92.3$ (*c* 0.51, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 2*R*,3*S*,5*R*,6*R*



$C_{19}H_{19}NO_2$

[(2*R*,3*S*,5*R*,6*R*)-3-Methyl-5,6-diphenyl-1,4-dioxan-2-yl]acetonitrile

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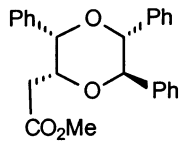

$C_{25}H_{24}O_4$

Methyl [(2*R*,3*S*,5*R*,6*R*)-3,5,6-triphenyl-1,4-dioxan-2-yl]acetate

$[\alpha]_D^{24} = +60.8$ (*c* 0.76, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 2*R*,3*S*,5*R*,6*R*

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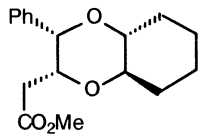
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{17}H_{22}O_4$

Methyl [(2*R*,3*S*,4a*R*,8a*R*)-3-phenyloctahydro-1,4-benzodioxin-2-yl]acetate

$[\alpha]_D^{23} = +74.7$ (*c* 1.20, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 2*R*,3*S*,4a*R*,8a*R*

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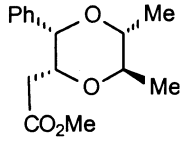
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{15}H_{20}O_4$

Methyl [(2*R*,3*S*,5*R*,6*R*)-5,6-dimethyl-3-phenyl-1,4-dioxan-2-yl]acetate

$[\alpha]_D^{27} = +25.3$ (*c* 0.26, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 2*R*,3*S*,5*R*,6*R*

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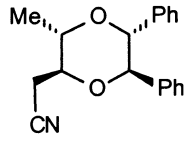
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{19}H_{19}NO_2$

[(2*S*,3*S*,5*R*,6*R*)-3-Methyl-5,6-diphenyl-1,4-dioxan-2-yl]acetonitrile

$[\alpha]_D^{21} = +96.0$ (*c* 1.67, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 2*S*,3*S*,5*R*,6*R*

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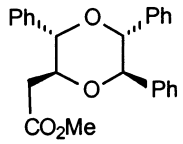
Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{25}H_{24}O_4$

Methyl [(2*S*,3*S*,5*R*,6*R*)-3,5,6-triphenyl-1,4-dioxan-2-yl]acetate

$[\alpha]_D^{21} = +31.1$ (*c* 0.79, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-diphenyl-1,2-ethanediol

Absolute configuration: 2*S*,3*S*,5*R*,6*R*

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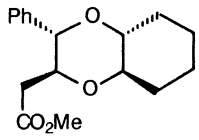
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{17}H_{22}O_4$

Methyl [(2*S*,3*S*,4a*R*,8a*R*)-3-phenyloctahydro-1,4-benzodioxin-2-yl]acetate

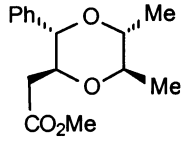
$[\alpha]_D^{23} = +22.1$ (*c* 0.30, $CHCl_3$)

Source of chirality: (1*R*,2*R*)-1,2-cyclohexanediol

Absolute configuration: 2*S*,3*S*,4a*R*,8a*R*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{15}H_{20}O_4$

Methyl [(2*S*,3*S*,5*R*,6*R*)-5,6-dimethyl-3-phenyl-1,4-dioxan-2-yl]acetate

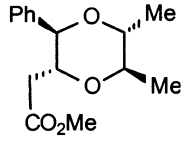
$[\alpha]_D^{30} = +26.3$ (*c* 0.34, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 2*S*,3*S*,5*R*,6*R*

Marcello Tiecco,* Lorenzo Testaferri, Francesca Marini,
Silvia Sternativo, Claudio Santi, Luana Bagnoli and Andrea Temperini

Tetrahedron: Asymmetry *14 (2003) 1095*



$C_{15}H_{20}O_4$

Methyl [(2*R*,3*R*,5*R*,6*R*)-5,6-dimethyl-3-phenyl-1,4-dioxan-2-yl]acetate

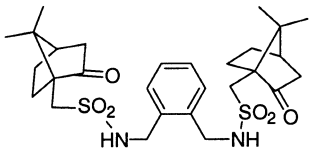
$[\alpha]_D^{27} = +18.4$ (*c* 0.95, $CHCl_3$)

Source of chirality: (2*R*,3*R*)-2,3-butanediol

Absolute configuration: 2*R*,3*R*,5*R*,6*R*

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = +24.4$ (*c* 1.6, EtOH)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

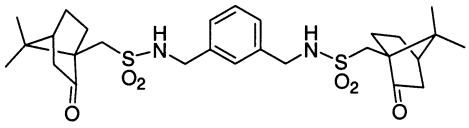
Absolute configuration: 1*S*,4*S*,1′*S*,4′*S*

$C_{28}H_{40}N_2O_6S_2$

N-{2-(7′,7′-Dimethyl-2′-oxobicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-7,7-dimethyl-2-oxobicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = +9.05$ (*c* 1.7, $CHCl_3$)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

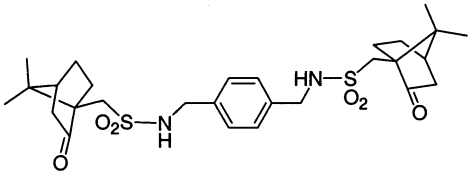
Absolute configuration: 1*S*,4*S*,1′*S*,4′*S*

$C_{28}H_{40}N_2O_6S_2$

N-{3-(7′,7′-Dimethyl-2′-oxobicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-7,7-dimethyl-2-oxobicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = +6.3$ (*c* 1.2, $CHCl_3$)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

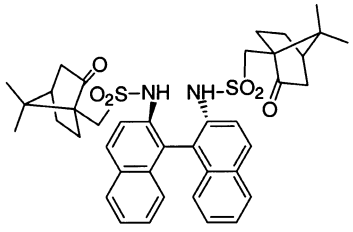
Absolute configuration: 1*S*,4*S*,1′*S*,4′*S*

$C_{28}H_{40}N_2O_6S_2$

N-{4-(7′,7′-Dimethyl-2′-oxobicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-7,7-dimethyl-2-oxobicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = +19.6$ (*c* 2.5, $CHCl_3$)

Source of chirality: D-(+)-10-camphorsulfonyl chloride and (*M*)-(+)-2,2′-diamino-1,1′-binaphthyl

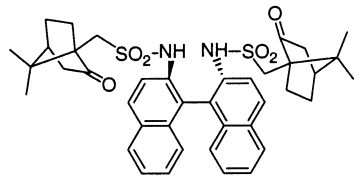
Absolute configuration: *M*,1*S*,4*S*,1′*S*,4′*S*

$C_{40}H_{44}N_2O_6S_2$

N-{1-[2-(7′,7′-Dimethyl-2′-oxobicyclo[2.2.1]hept-1′-ylmethylsulfonamido)-1-naphthyl]-2-naphthyl}-7,7-dimethyl-2-oxobicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = +23.9$ (c 1.5, $CHCl_3$)

Source of chirality: L-(−)-10-camphorsulfonyl chloride and (*M*)-(+)-2,2′-diamino-1,1′-binaphthyl

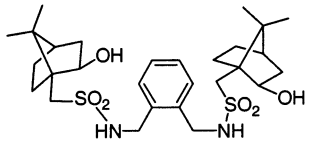
Absolute configuration: *M*,1*R*,4*R*,1′*R*,4′*R*

$C_{40}H_{44}N_2O_6S_2$

N-{1-[2-(7′,7′-Dimethyl-2′-oxobicyclo[2.2.1]hept-1′-ylmethylsulfonamido)-1-naphthyl]-2-naphthyl}-7,7-dimethyl-2-oxobicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = -46.2$ (c 2.0, $CHCl_3$)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

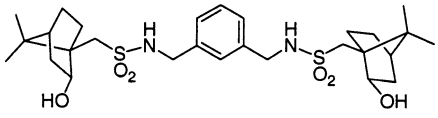
Absolute configuration: 1*S*,2*R*,4*S*,1′*S*,2′*R*,4′*S*

$C_{28}H_{44}N_2O_6S_2$

N-{2-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = -46.2$ (c 1.8, EtOH)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

Absolute configuration: 1*S*,2*R*,4*S*,1′*S*,2′*R*,4′*S*

$C_{28}H_{44}N_2O_6S_2$

N-{3-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

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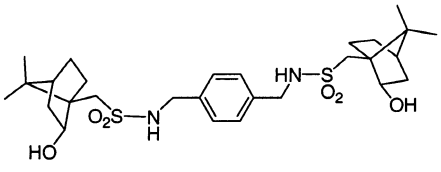
Tetrahedron: Asymmetry *14 (2003) 1103*



$[\alpha]_D^{25} = -1.4$ (c 1.5, $CHCl_3$)

Source of chirality: D-(+)-10-camphorsulfonyl chloride

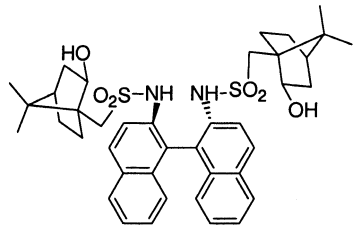
Absolute configuration: 1*S*,2*R*,4*S*,1′*S*,2′*R*,4′*S*

$C_{28}H_{44}N_2O_6S_2$

N-{4-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$C_{40}H_{48}N_2O_6S_2$

$[\alpha]_D^{25} = +24.05$ (c 1.7, $CHCl_3$)

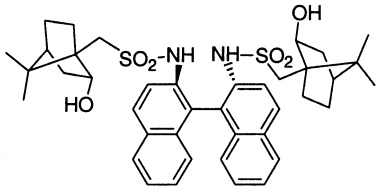
Source of chirality: D-(+)-10-camphorsulfonyl chloride and (*M*)-(+)-2,2′-diamino-1,1′-binaphthyl

Absolute configuration: *M*,1*S*,2*R*,4*S*,1′*S*,2′*R*,4′*S*

N-{1-[2-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamido)-1-naphthyl]-2-naphthyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$C_{40}H_{48}N_2O_6S_2$

$[\alpha]_D^{25} = +25.5$ (c 1.3, $CHCl_3$)

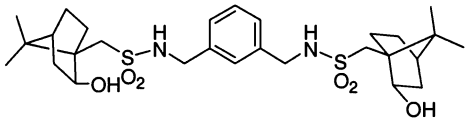
Source of chirality: L-(−)-10-camphorsulfonyl chloride and (*M*)-(+)-2,2′-diamino-1,1′-binaphthyl

Absolute configuration: *M*,1*R*,2*S*,4*R*,1′*R*,2′*S*,4′*R*

N-{1-[2-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamido)-1-naphthyl]-2-naphthyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$C_{28}H_{44}N_2O_6S_2$

$[\alpha]_D^{25} = -9.65$ (c 1.9, EtOH)

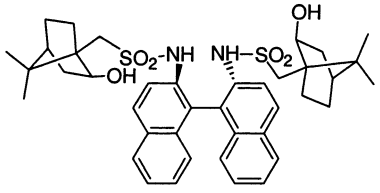
Source of chirality: D-(+)-10-camphorsulfonyl chloride

Absolute configuration: 1*S*,2*R*,4*S*,1′*S*,2′*S*,4′*S*

N-{3-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamidomethyl)benzyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Miguel Yus,* Diego J. Ramón and Oscar Prieto

Tetrahedron: Asymmetry *14 (2003) 1103*



$C_{40}H_{48}N_2O_6S_2$

$[\alpha]_D^{25} = +8.25$ (c 1.05, $CHCl_3$)

Source of chirality: L-(−)-10-camphorsulfonyl chloride and (*M*)-(+)-2,2′-diamino-1,1′-binaphthyl

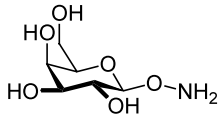
Absolute configuration: *M*,1*R*,2*S*,4*R*,1′*R*,2′*R*,4′*R*

N-{1-[2-(2′-Hydroxy-7′,7′-dimethylbicyclo[2.2.1]hept-1′-ylmethylsulfonamido)-1-naphthyl]-2-naphthyl}-2-hydroxy-7,7-dimethylbicyclo[2.2.1]-hept-1-ylmethanesulfonamide

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = +68.0$ (c 3, H_2O)
Source of chirality: galactose (chiral pool)

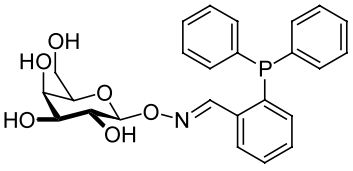


$C_6H_{13}NO_6$
O-β-D-Galactopyranosylhydroxylamine

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = +15.8$ (c 1, CH_2Cl_2)
Source of chirality: galactose (chiral pool)

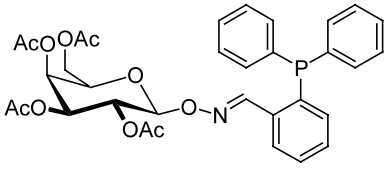


$C_{25}H_{26}NO_6P$
O-(β-D-Galactopyranosyl)-2-diphenylphosphanylbenzaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = +5.7$ (c 1, CH_2Cl_2)
Source of chirality: galactose (chiral pool)

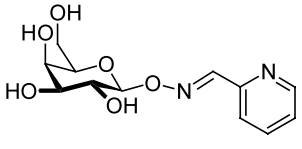


$C_{33}H_{34}NO_{10}P$
O-(2,3,4,6-Tetra-*O*-acetyl-β-D-galactopyranosyl)-2-diphenylphosphanylbenzaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = -15.0$ (c 3, H_2O)
Source of chirality: galactose (chiral pool)

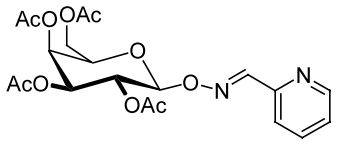


$C_{12}H_{16}N_2O_6$
O-(β-D-Galactopyranosyl)pyridine-2-carbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = +9.6$ (c 2, CH_2Cl_2)
Source of chirality: galactose (chiral pool)

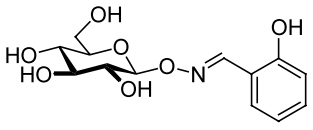


$C_{20}H_{24}N_2O_{10}$
O-(2,3,4,6-Tetra-*O*-acetyl-β-D-galactopyranosyl)pyridine-2-carbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = -20.7$ (c 2, MeOH)
Source of chirality: glucose (chiral pool)

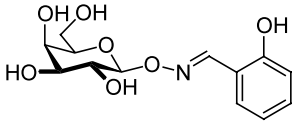


$C_{13}H_{17}NO_7$
O-β-D-Glucopyranosylsalicylaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

$[\alpha]_D^{25} = -10.7$ (c 2, MeOH)
Source of chirality: galactose (chiral pool)

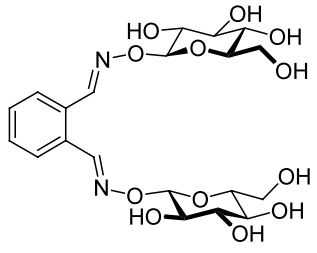


$C_{13}H_{17}NO_7$
O-β-D-Galactopyranosylsalicylaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*

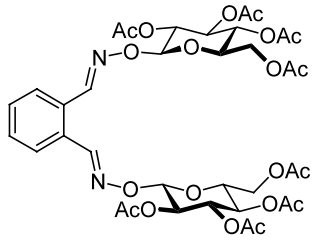
$[\alpha]_D^{25} = -32.8$ (c 3, H_2O)
Source of chirality: glucose (chiral pool)



$C_{20}H_{28}N_2O_{12}$
Bis-*O*-(β-D-glucopyranosyl)benzene-1,2-dicarbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*



$[\alpha]_D^{25} = -31.9$ (c 2, CH_2Cl_2)

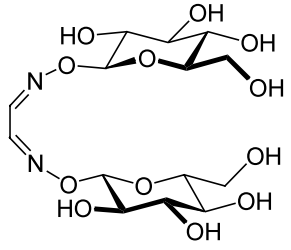
Source of chirality: glucose (chiral pool)

$C_{36}H_{44}N_2O_{20}$

Bis-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)benzene-1,2-dicarbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*



$[\alpha]_D^{25} = -32.0$ (c 3, H_2O)

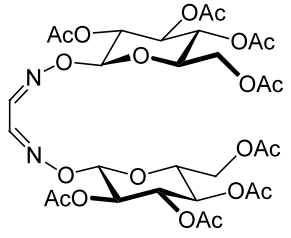
Source of chirality: glucose (chiral pool)

$C_{14}H_{24}N_2O_{12}$

Bis-*O*-(β-D-glucopyranosyl)ethane-1,2-dicarbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*



$[\alpha]_D^{25} = -29.0$ (c 1, CH_2Cl_2)

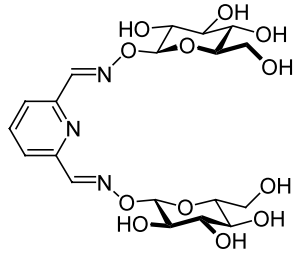
Source of chirality: glucose (chiral pool)

$C_{30}H_{40}N_2O_{20}$

Bis-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)ethane-1,2-dicarbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*



$[\alpha]_D^{25} = +27.4$ (c 3, H_2O)

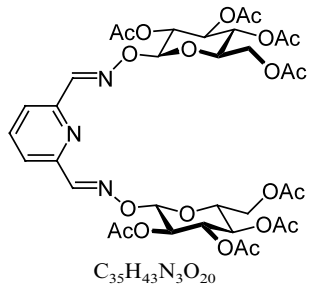
Source of chirality: glucose (chiral pool)

$C_{19}H_{27}N_3O_{12}$

Bis-*O*-(β-D-glucopyranosyl)pyridine-2,6-dicarbaldoxime

Henri Brunner,* Maximilian Schönherr and Manfred Zabel

Tetrahedron: Asymmetry *14 (2003) 1115*



$C_{35}H_{43}N_3O_{20}$

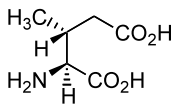
Bis-*O*-(2,3,4,6-tetra-*O*-acetyl-β-D-glucopyranosyl)pyridine-2,6-dicarbaldoxime

$[\alpha]_D^{25} = -31.5$ (*c* 1, CH_2Cl_2)

Source of chirality: glucose (chiral pool)

J. Wehbe, V. Rolland,* M. L. Roumestant and J. Martinez

Tetrahedron: Asymmetry *14 (2003) 1123*



$C_6H_{13}NO_4$

(2*S*,3*R*)-3-Methyl glutamic acid

E.e. = 99.0%±1

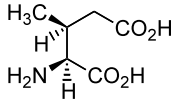
$[\alpha]_D^{20} = +22.3$ (*c* 1, 6N HCl)

Source of chirality: (1*R*,2*R*,5*R*)-2-hydroxypinan-3-one

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

J. Wehbe, V. Rolland,* M. L. Roumestant and J. Martinez

Tetrahedron: Asymmetry *14 (2003) 1123*



$C_6H_{13}NO_4$

(2*S*,3*S*)-3-Methyl glutamic acid

E.e. = 99.0%±1

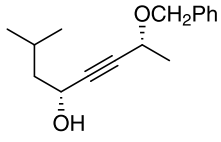
4b: (2*S*,3*S*):$[\alpha]_D^{20} = +36.3$ (*c* 1, 6N HCl)

Source of chirality: (1*R*,2*R*,5*R*)-2-hydroxypinan-3-one

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

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{16}H_{22}O_2$

(4*R*,7*R*)-7-Benzyloxy-2-methyloct-5-yn-4-ol

9:1 Mixture of 4*R*,7*R* and 4*S*,7*R* isomers

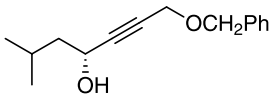
$[\alpha]_D = +100.4$ (*c* 0.57, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 4*R*,7*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{15}H_{20}O_2$

(*R*)-1-Benzyloxy-6-methylhept-2-yn-4-ol

E.e. 82% (HPLC)

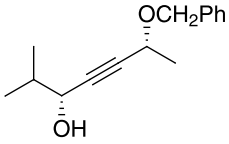
$[\alpha]_D = +10.7$ (*c* 1.16, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: *R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{15}H_{20}O_2$

(3*R*,6*R*)-6-Benzyloxy-2-methylhept-4-yn-3-ol

97:3 Mixture of 3*R*,6*R* and 3*S*,6*R* isomers

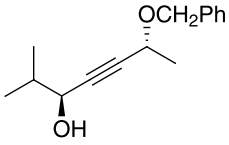
$[\alpha]_D = +94.2$ (*c* 1.60, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 3*R*,6*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{15}H_{20}O_2$

(3*S*,6*R*)-6-Benzyloxy-2-methylhept-4-yn-3-ol

87:13 Mixture of 3*S*,6*R* and 3*R*,6*R* isomers

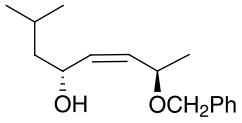
$[\alpha]_D = +118.5$ (*c* 1.32, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 3*S*,6*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{16}H_{24}O_2$

(4*R*,5*Z*,7*R*)-7-Benzyloxy-2-methyloct-5-en-4-ol

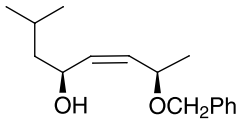
$[\alpha]_D = +6.2$ (*c* 0.40, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 4*R*,5*Z*,7*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{16}H_{24}O_2$

(4*S*,5*Z*,7*R*)-7-Benzyloxy-2-methyloct-5-en-4-ol

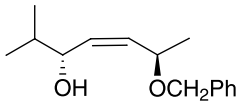
$[\alpha]_D = -14.6$ (*c* 1.21, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 4*S*,5*Z*,7*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{15}H_{22}O_2$

(3*R*,4*Z*,6*R*)-6-Benzyloxy-2-methylhept-4-en-3-ol

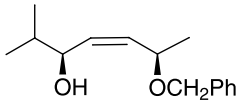
$[\alpha]_D = -21.8$ (*c* 0.76, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 3*R*,4*Z*,6*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{15}H_{22}O_2$

(3*S*,4*Z*,6*R*)-6-Benzyloxy-2-methylhept-4-en-3-ol

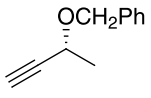
$[\alpha]_D = +7.4$ (*c* 0.96, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: 3*S*,4*Z*,6*R*

Jordi Ortiz, Xavier Ariza* and Jordi Garcia*

Tetrahedron: Asymmetry *14 (2003) 1127*



$C_{11}H_{12}O$

(*R*)-3-Benzyloxybut-1-yne

E.e. >99%

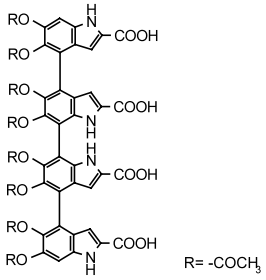
$[\alpha]_D = +110.5$ (*c* 0.96, $CHCl_3$)

Source of chirality: enantiopure starting material

Absolute configuration: *R*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



$C_{52}H_{38}N_4O_{24}$

(4-4′*S*,7′-7″*S*,4″-4‴*S*)-5,5′,5″,5‴,6,6′,6″,6‴-Octaacetoxy-2,2′,2″,2‴-tetracarboxy-4,4′:7′,7″:4″,4‴-quaterindole

E.e. >98%

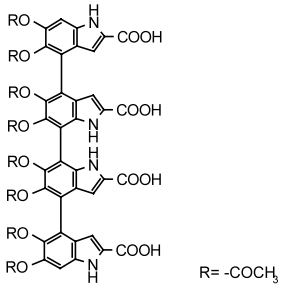
$[\alpha]_D^{25}$ = +54.6 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*,*S*,*S*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



$C_{52}H_{38}N_4O_{24}$

(4-4′*S*,7′-7″*S*,4″-4‴*R*)-5,5′,5″,5‴,6,6′,6″,6‴-Octaacetoxy-2,2′,2″,2‴-tetracarboxy-4,4′:7′,7″:4″,4‴-quaterindole

E.e. >98%

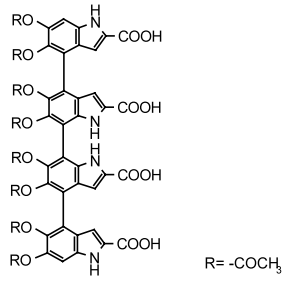
$[\alpha]_D^{25}$ = +30.8 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*,*S*,*R*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



$C_{52}H_{38}N_4O_{24}$

(4-4′*S*,7′-7″*R*,4″-4‴*S*)-5,5′,5″,5‴,6,6′,6″,6‴-Octaacetoxy-2,2′,2″,2‴-tetracarboxy-4,4′:7′,7″:4″,4‴-quaterindole

E.e. >98%

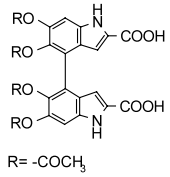
$[\alpha]_D^{25}$ = +32.2 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*,*R*,*S*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



$C_{26}H_{20}N_2O_{12}$

(4-4′*S*)-2,2′-Dicarboxy-5,5′,6,6′-tetraacetoxy-4,4′-biindole

E.e. >98%

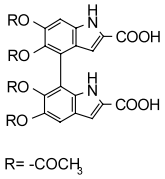
$[\alpha]_D^{25}$ = +35.3 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



R= -$COCH_3$

$C_{26}H_{20}N_2O_{12}$

(4-7′*S*)-2,2′-Dicarboxy-5,5′,6,6′-tetraacetoxy-4,7′-biindole

E.e. >98%

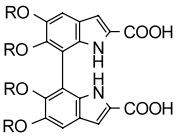
$[\alpha]_D^{25}$ = +42.4 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*

Alessandro Pezzella,* Davide Vogna and Giuseppe Prota

Tetrahedron: Asymmetry *14 (2003) 1133*



R= -$COCH_3$

$C_{26}H_{20}N_2O_{12}$

(7-7′*S*)-2,2′-Dicarboxy-5,5′,6,6′-tetraacetoxy-7,7′-biindole

E.e. >98%

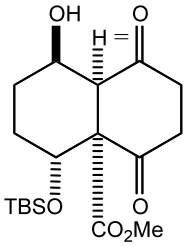
$[\alpha]_D^{25}$ = +38.8 (*c* 1.0, EtOH)

Source of chirality: chiral phase HPLC resolution

Absolute configuration: *S*

François-Didier Boyer, Thierry Prangé and Paul-Henri Ducrot*

Tetrahedron: Asymmetry *14 (2003) 1153*



$C_{18}H_{30}O_6Si$

(1*R*,4*R*,4a*S*,8a*S*)-4-*tert*-Butyldimethylsilyl)oxy-1-hydroxy-5,8-dioxo-octahydro-naphthalene-4a-carboxylic acid methyl ester

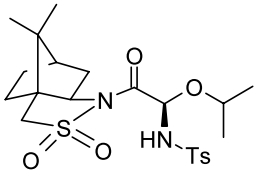
$[\alpha]_D^{20}$ = −89.6 (*c* 1.22, $CHCl_3$)

Source of chirality: diastereoselective 1,4-addition

Absolute configuration:1*R*,4*R*,4a*S*,8a*S*

Anna Kulesza, Adam Mieczkowski, Janans Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



$C_{22}H_{30}N_2O_6S_2$

N-((2′*R*)-*N*′-*p*-Toluenesulphonylisopropoxyglycinoyl)-(2*R*)-bornano-10,2-sultam imide

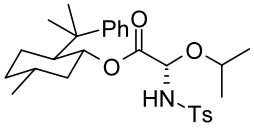
E.e. >96%

$[\alpha]_D^{20}$ = −68.3 (*c* 1, $CHCl_3$)

Source of chirality: (2*R*)-bornano-10,2-sultam

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = +31.7$ (c 1, $CHCl_3$)

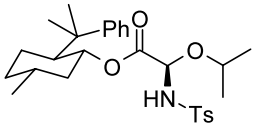
Source of chirality: (*R*)-8-phenylmenthol

$C_{28}H_{39}NO_5S$

N-((2′*S*)-*N*′-*p*-Toluenesulphonylisopropoxyglycine)-8-(*R*)-phenylmenthyl ester

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = +5.0$ (c 1, $CHCl_3$)

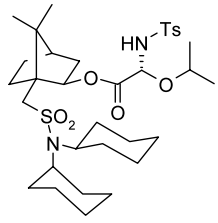
Source of chirality: (*R*)-8-phenylmenthol

$C_{28}H_{39}NO_5S$

N-((2′*R*)-*N*′-*p*-Toluenesulphonylisopropoxyglycine)-8-(*R*)-phenylmenthyl ester

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = -10.9$ (c 1, $CHCl_3$)

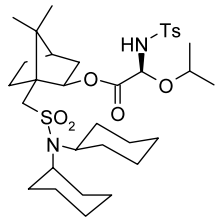
Source of chirality: 10-*N*,*N*-dicyclohexyl-sulphamoyl-(*R*)-isoborneol

$C_{34}H_{54}N_2O_7S_2$

N-((2′*R*)-*N*′-*p*-Toluenesulphonylisopropoxyglycine)-10-*N*,*N*-dicyclohexylsulphamoyl-(2*R*)-isoborneyl ester

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = -3.5$ (c 1, $CHCl_3$)

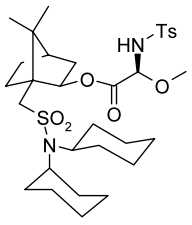
Source of chirality: 10-*N*,*N*-dicyclohexyl-sulphamoyl-(*R*)-isoborneol

$C_{34}H_{54}N_2O_7S_2$

N-((2′*S*)-*N*′-*p*-Toluenesulphonylisopropoxyglycine)-10-*N*,*N*-dicyclohexylsulphamoyl-(2*R*)-isoborneyl ester

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = -16.1$ (c 1, $CHCl_3$)

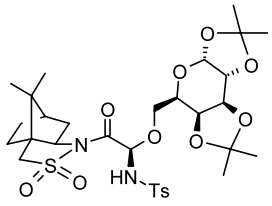
Source of chirality: 10-*N*,*N*-dicyclohexylsulphamoyl-(*R*)-isoborneol

$C_{32}H_{50}N_2O_7S_2$

N-((2′*S*)-*N*′-*p*-Toluenesulphonylmethoxyglycine)-10-*N*,*N*-dicyclohexylsulphamoyl-(2*R*)-isoborneyl ester

Anna Kulesza, Adam Mieczkowski, Jan Romański and Janusz Jurczak*

Tetrahedron: Asymmetry *14 (2003) 1161*



E.e. >96%

$[\alpha]_D^{20} = -37.1$ (c 1, $CHCl_3$)

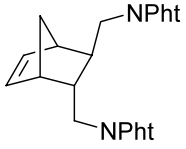
Source of chirality: (2*R*)-bornano-10,2-sultam and 1,2:3,4-di-*O*-isopropylidene-α-D-galactopyranoside

$C_{31}H_{44}N_2O_{11}S_2$

N-((2′*R*)-*N*′-*p*-Toluenesulphonyl-1,2:3,4-di-*O*-isopropylidene-α-D-galactopyranosylglycinoyl)-(2*R*)-bornano-10,2-sultam imide

Cihangir Tanyeli* and Salih Özçubukçu

Tetrahedron: Asymmetry *14 (2003) 1167*



E.e. = 98%

$[\alpha]_D^{25} = +31.2$ (c 0.048, $CHCl_3$)

Source of chirality: asymmetric synthesis

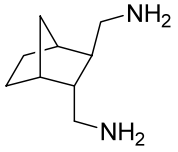
Absolute configuration: 5*R*,6*R*

$C_{25}H_{20}N_2O_4$

(5*R*,6*R*)-5,6-Bis[(1,3-dioxo-2,3-dihydro-1*H*-2-isoindolyl)methyl]bicyclo[2.2.1]hept-2-ene

Cihangir Tanyeli* and Salih Özçubukçu

Tetrahedron: Asymmetry *14 (2003) 1167*



E.e. = 98%

$[\alpha]_D^{25} = +3.2$ (c 0.05, $CHCl_3$)

Source of chirality: asymmetric synthesis

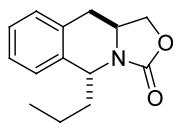
Absolute configuration: 5*R*,6*R*

$C_9H_{18}N_2$

(5*R*,6*R*)-5,6-Bis(aminomethyl)bicyclo[2.2.1]heptane

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



E.e. >98%

$[\alpha]_D^{20} = -146.4$ (*c* 2.0, $CHCl_3$)

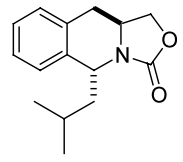
Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

$C_{14}H_{17}NO_2$

(5*R*,10a*S*)-5-Propyl-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



E.e. >98%

$[\alpha]_D^{20} = -100.7$ (*c* 3.0, $CHCl_3$)

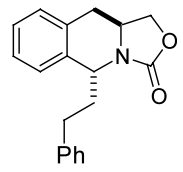
Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

$C_{15}H_{19}NO_2$

(5*R*,10a*S*)-5-(2-Methylpropyl)-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



E.e. >98%

$[\alpha]_D^{20} = -109.3$ (*c* 4.0, $CHCl_3$)

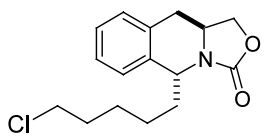
Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

$C_{19}H_{19}NO_2$

(5*R*,10a*S*)-5-(2-Phenylethyl)-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



E.e. >98%

$[\alpha]_D^{20} = -85.1$ (*c* 2.0, $CHCl_3$)

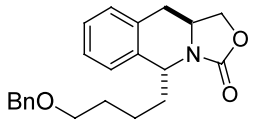
Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

$C_{16}H_{20}ClNO_2$

(5*R*,10a*S*)-5-(5-Chloropentyl)-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



$C_{22}H_{25}NO_3$

(5*R*,10a*S*)-5-(4-Benzyloxybutyl)-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

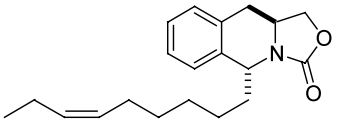
E.e. >98%

$[\alpha]_D^{20} = -55.7$ (*c* 3.0, $CHCl_3$)

Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



$C_{20}H_{27}NO_2$

(*Z*)(5*R*,10a*S*)-5-(6-Nonenyl)-1,5,10,10a-tetrahydro[1,3]oxazolo[3,4-*b*]isoquinolin-3-one

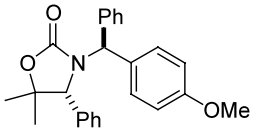
E.e. >98%

$[\alpha]_D^{20} = -92.3$ (*c* 1.7, $CHCl_3$)

Source of chirality: (*S*)-4-benzyl-1,3-oxazolidin-2-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



$C_{26}H_{25}NO_3$

(4*R*,1′*S*)-5,5-Dimethyl-3-[1-(4-methoxyphenyl)phenylmethyl]-4-phenyloxazolidin-2-one

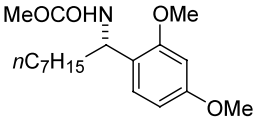
D.e. = 90%

$[\alpha]_D^{20} = -51.7$ (*c* 3.0, $CHCl_3$)

Source of chirality: (*R*)-5,5-dimethyl-4-phenyl-1,3-oxazolidin-2-one

Tiziana Mecozzi, Marino Petrini* and Roberto Profeta

Tetrahedron: Asymmetry *14 (2003) 1171*



$C_{18}H_{29}NO_4$

(*S*)-Methyl-1-(2,4-dimethoxyphenyl)octyl carbamate

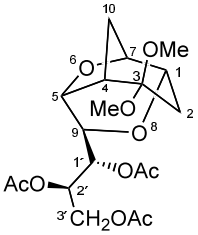
E.e. = 58%

$[\alpha]_D^{20} = +5.3$ (*c* 3.7, $CHCl_3$)

Source of chirality: (*R*)-5,5-dimethyl-4-phenyl-1,3-oxazolidin-2-one

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



E.e. = 100%

$[\alpha]_D = +23.5$ (c 0.26, $CHCl_3$)

Source of chirality: asymmetric synthesis from D-mannose

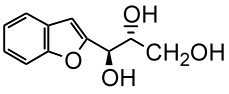
Absolute configuration: 1′*R*,2′*R*,1*R*,4*S*,5*R*,7*S*,9*R*

$C_{19}H_{28}O_{10}$

(1′*R*,2′*R*)-1′,2′,3′-Triacetoxy-3,3-dimethoxy-(1*R*,4*S*,5*R*,7*S*,9*R*)-6,8-dioxatricyclo[3.2.2.1^{4,7}]decane

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



E.e. = 100%

$[\alpha]_D = -1.0$ (c 0.60, MeOH)

Source of chirality: asymmetric synthesis from D-mannose

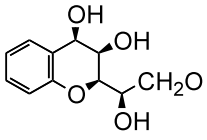
Absolute configuration: 1′*R*,2′*R*

$C_{11}H_{12}O_4$

2-[(1′*R*,2′*R*)-1′,2′,3′-Trihydroxypropyl]benzofuran

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



E.e. = 100%

$[\alpha]_D = -1.0$ (c 0.55, MeOH)

Source of chirality: asymmetric synthesis from D-mannose

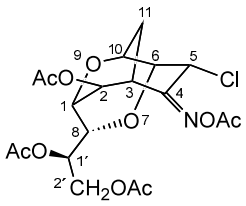
Absolute configuration: 1′*R*,2*R*,3*R*,4*R*

$C_{11}H_{14}O_5$

2(*R*)-2-[(1′*R*)-1′,2′-Dihydroxyethyl]-(3*R*,4*R*)-chromane-3,4-diol

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



E.e. = 100%

$[\alpha]_D = +15.0$ (c 0.16, $CHCl_3$)

Source of chirality: asymmetric synthesis from D-mannose

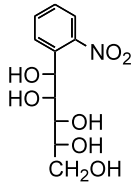
Absolute configuration: 1′*R*,1*R*,2*S*,3*R*,5*R*,6*S*,8*R*,10*S*

$C_{19}H_{24}ClNO_{10}$

(2*S*,5*R*,8*R*)-2-Acetoxy-8-[(1′*R*)-1′,2′-diacetoxyethyl]-5-chloro-(1*R*,3*R*,6*S*,10*S*)-7,9-dioxatricyclo-[4.2.2.1^{3,10}]undecane-4-one oxime acetate

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



$C_{11}H_{15}NO_7$

2-Nitro-1-(D-*manno*-pentitol-1′-yl)benzene

E.e. = 100%

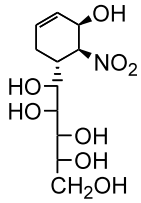
$[\alpha]_D = -2.2$ (*c* 0.50, pyridine)

Source of chirality: asymmetric synthesis from D-mannose

Absolute configuration: 1′*R*,2′*R*,3′*R*,4′*R*

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



$C_{11}H_{19}NO_8$

1′-*C*-[(1*R*,5*R*,6*S*)-5-Hydroxy-6-nitrocyclohex-3-enyl]-D-*manno*-pentitol

E.e. = 100%

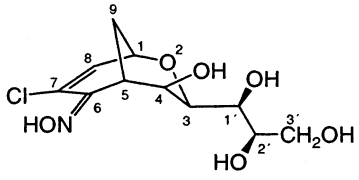
$[\alpha]_D = -23.6$ (*c* 0.50, pyridine)

Source of chirality: asymmetric synthesis from D-mannose

Absolute configuration: 1*R*,1′*R*,2′*R*,3′*S*,4′*S*,5*R*,6*S*

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



$C_{11}H_{16}ClNO_6$

7-Chloro-7-en-(4*S*)-4-hydroxy-(3*R*)-3-[(1′*S*,2′*R*)-1′,2′,3′-trihydroxypropyl]-2-oxabicyclo[3.3.1]nonane-6-one oxime

E.e. = 100%

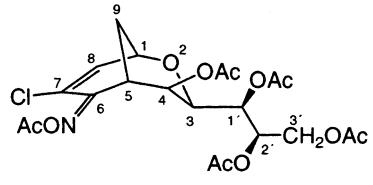
$[\alpha]_D = +168.6$ (*c* 0.43, MeOH)

Source of chirality: asymmetric synthesis from D-galactose

Absolute configuration: 1′*S*,2′*R*,3*R*,4*S*

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



$C_{21}H_{26}ClNO_{11}$

7-Chloro-7-en-(4*S*)-4-acetoxy-(3*R*)-3-[(1′*S*,2′*R*)-1′,2′,3′-triacetoxypropyl]-2-oxabicyclo[3.3.1]nonane-6-one oxime acetate

E.e. = 100%

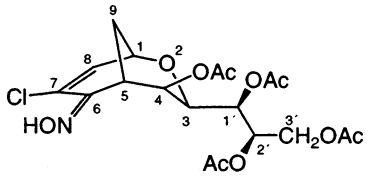
$[\alpha]_D = +49.1$ (*c* 0.42, $CHCl_3$)

Source of chirality: asymmetric synthesis from D-galactose

Absolute configuration: 1′*S*,2′*R*,3*R*,4*S*

M. Baños, E. Román* and J. A. Serrano

Tetrahedron: Asymmetry *14 (2003) 1187*



E.e. = 100%

$[\alpha]_D = +92.2$ (c 0.33, $CHCl_3$)

Source of chirality: asymmetric synthesis from D-galactose

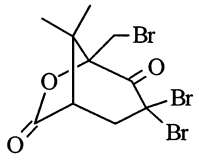
Absolute configuration: 1′*S*,2′*R*,3*R*,4*S*

$C_{19}H_{25}ClNO_{10}$

7-Chloro-7-en-(4*S*)-4-acetoxy-(3*R*)-3-[(1′*S*,2′*R*)-1′,2′,3′-triacetoxypropyl]-2-oxabicyclo[3.3.1]nonane-6-one oxime

Desmond Cunningham, David H. Grayson,* Patrick McArdle and John J. Walsh

Tetrahedron: Asymmetry *14 (2003) 1197*



Mp 201–202°C

$[\alpha]_D$ −29 (c 0.104, $CHCl_3$)

Source of chirality: (−)-camphorquinone

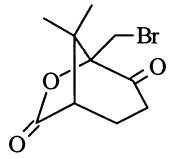
Absolute configuration: (1*S*,5*S*)

$C_{10}H_{11}Br_3O_3$

(1*S*,5*S*)-1-Bromomethyl-3,3-dibromo-8,8-dimethyl-7-oxabicyclo[3.2.1]octane-2,6-dione

Desmond Cunningham, David H. Grayson,* Patrick McArdle and John J. Walsh

Tetrahedron: Asymmetry *14 (2003) 1197*



Mp 137–138°C

$[\alpha]_D$ +68.4 (c 0.19, $CHCl_3$)

Source of chirality: (−)-camphorquinone

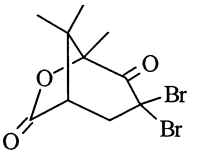
Absolute configuration: (1*S*,5*S*)

$C_{10}H_{13}BrO_3$

(1*S*,5*S*)-1-Bromomethyl-8,8-dimethyl-2-oxabicyclo[3.2.1]octane-3,7-dione

Desmond Cunningham, David H. Grayson,* Patrick McArdle and John J. Walsh

Tetrahedron: Asymmetry *14 (2003) 1197*



Mp 139–140°C

$[\alpha]_D$ −43.3 (c 0.12, $CHCl_3$)

Source of chirality: (−)-camphorquinone

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

$C_{10}H_{11}Br_2O_3$

(1*S*,5*S*)-6,6-Dibromo-1,8,8-trimethyl-2-oxabicyclo[3.2.1]octane-3,7-dione

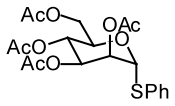
Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*

E.e. = 100%

$[\alpha]_D^{22} = +74.4$ (*c*, 1.17 in $CHCl_3$)

Source of chirality: D-mannose



$C_{20}H_{24}O_9S$

Phenyl 2,3,4,6-tetra-*O*-acetyl-1-thio-α-D-mannopyranoside

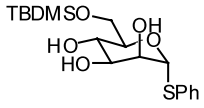
Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*

E.e. = 100%

$[\alpha]_D^{23} = +179.8$ (*c*, 0.97 in $CHCl_3$)

Source of chirality: D-mannose



$C_{18}H_{30}O_5SSi$

Phenyl 6-*O*-*tert*-butyldimethylsilyl-1-thio-α-D-mannopyranoside

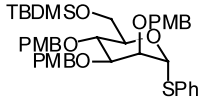
Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*

E.e. = 100%

$[\alpha]_D^{23} = +46.6$ (*c*, 0.7 in $CHCl_3$)

Source of chirality: D-mannose



$C_{42}H_{54}O_8SSi$

Phenyl 6-*O*-*tert*-butyldimethylsilyl-2,3,4-tri-*O*-4-methoxybenzyl-1-thio-α-D-mannopyranoside

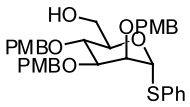
Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*

E.e. = 100%

$[\alpha]_D^{23} = +55.6$ (*c*, 0.78 in $CHCl_3$)

Source of chirality: D-mannose

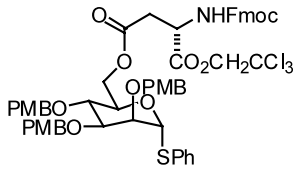


$C_{36}H_{40}O_8S$

Phenyl 2,3,4-tri-*O*-4-methoxybenzyl-1-thio-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



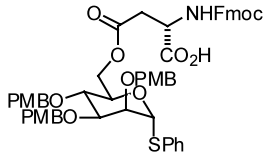
E.e. = 100%
$[\alpha]_D^{24} = +46.7$ (*c*, 1.0 in $CHCl_3$)
Source of chirality: D-mannose

$C_{57}H_{56}O_{13}NSCl_3$

α-2,2,2-Trichloroethyl-β-carboxy-(phenyl 2,3,4-tri-*O*-4-methoxybenzyl-α-D-mannopyranos-6-*O*-yl)-*N*-9-fluorenylmethoxycarbonyl-L-aspartic acid

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



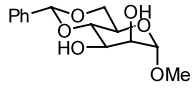
E.e. = 100%
$[\alpha]_D^{24} = +79.1$ (*c*, 0.53 in $CHCl_3$)
Source of chirality: D-mannose

$C_{55}H_{54}O_{13}NS$

β-Carboxy-(phenyl 2,3,4-tri-*O*-4-methoxybenzyl-α-D-mannopyranos-6-*O*-yl)-*N*-9-fluorenylmethoxycarbonyl-L-aspartic acid

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



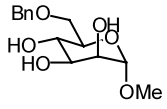
E.e. = 100%
$[\alpha]_D^{23} = +70.1$ (*c*, 1.07 in $CHCl_3$)
Source of chirality: D-mannose

$C_{14}H_{18}O_6$

Methyl 4,6-*O*-benzylidene-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



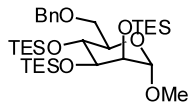
E.e. = 100%
$[\alpha]_D^{23} = +69.7$ (*c*, 0.71 in $CHCl_3$)
Source of chirality: D-mannose

$C_{14}H_{20}O_6$

Methyl 6-*O*-benzyl-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



E.e. = 100%

$[\alpha]_D^{23} = +35.3$ (*c*, 1.68 in $CHCl_3$)

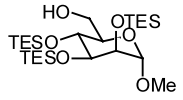
Source of chirality: D-mannose

$C_{32}H_{62}O_6Si_3$

Methyl 2,3,4-tri-*O*-triethylsilyl-6-*O*-benzyl-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



E.e. = 100%

$[\alpha]_D^{23} = +38.5$ (*c*, 1.38 in $CHCl_3$)

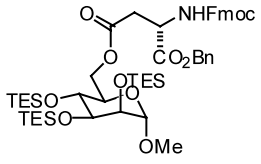
Source of chirality: D-mannose

$C_{25}H_{56}O_6Si_3$

Methyl 2,3,4-tri-*O*-triethylsilyl-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



E.e. = 100%

$[\alpha]_D^{23} = +35.9$ (*c*, 0.57 in $CHCl_3$)

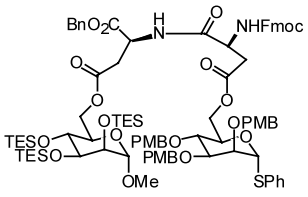
Source of chirality: D-mannose

$C_{51}H_{77}O_{11}NSi_3$

α-Benzyl-β-carboxy-(methyl 2,3,4-tri-*O*-triethylsilyl-α-D-mannopyranos-6-*O*-yl)-*N*-9-fluorenylmethoxycarbonyl-L-aspartic acid

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



E.e. = 100%

$[\alpha]_D^{24} = +43.7$ (*c*, 1.32 in $CHCl_3$)

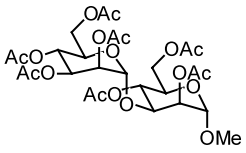
Source of chirality: D-mannose

$C_{91}H_{120}N_2O_{21}SSi_3$

α-Benzyl-β-carboxy-(methyl 2,3,4-tri-*O*-triethylsilyl-α-D-mannopyranos-6-*O*-yl)-L-aspartyl-β-carboxy-(phenyl 2,3,4-tri-*O*-4-methoxybenzyl-α-D-mannopyranos-6-*O*-yl)-*N*-9-fluorenylmethoxycarbonyl-L-aspartic acid

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



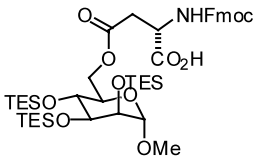
E.e. = 100%
$[\alpha]_D^{23} = +30.4$ (*c*, 0.26 in $CHCl_3$)
Source of chirality: D-mannose

$C_{27}H_{38}O_{18}$

2,3,4,6-Tetra-*O*-acetyl-α-D-mannopyranose-(1–3)-methyl 2,4,6-tri-*O*-acetyl-α-D-mannopyranoside

Richard J. Tennant-Eyles, Benjamin G. Davis and Antony J. Fairbanks*

Tetrahedron: Asymmetry *14 (2003) 1201*



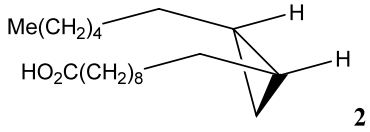
E.e. = 100%
$[\alpha]_D^{23} = +31.0$ (*c*, 0.93 in $CHCl_3$)
Source of chirality: D-mannose

$C_{44}H_{71}O_{11}NSi_3$

β-Carboxy-(methyl 2,3,4-tri-*O*-triethylsilyl-α-D-mannopyranos-6-*O*-yl)-*N*-9-fluorenylmethoxycarbonyl-L-aspartic acid

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



2

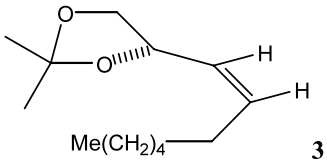
E.e. = 100%
$[\alpha]_D^{24} = -0.31$ (*c* 3.85, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,2*R*) or (11*S*,12*R*)

$C_{19}H_{36}O_2$

(1*S*,2*R*)-1-(9′-Carboxynon-1′-yl)-2-hexylcyclopropane or (11*S*,12*R*)-lactobacillic acid enantiomer

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



3

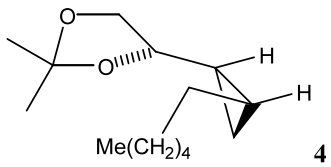
E.e. = 100%
$[\alpha]_D^{24} = +67.3$ (*c* 4.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4′*S*)

$C_{13}H_{24}O_2$

(1*Z*,4′*S*)-(2′,2′-Dimethyl-1′,3′-dioxolan-4′-yl)-1-octene

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



4

$C_{14}H_{26}O_2$

(1*R*,2*S*,4′*S*)-1-(2′,2′-Dimethyl-1′,3′-dioxolan-4′-yl)-2-hexylcyclopropane

E.e. = 100%

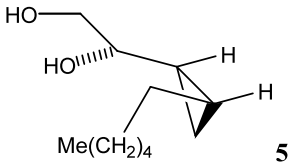
$[\alpha]_D^{24} = +19.6$ (*c* 0.55, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,2*S*,4′*S*)

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



5

$C_{11}H_{22}O_2$

(1*R*,2*S*,1′*S*)-1-(1′,2′-Dihydroxyeth-1′-yl)-2-hexylcyclopropane

E.e. = 100%

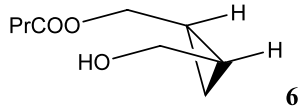
$[\alpha]_D^{24} = +21.9$ (*c* 0.21, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



6

$C_9H_{16}O_3$

(1*R*,2*S*)-1-Butyroyloxymethyl-2-hydroxymethylcyclopropane

E.e. = 100%

$[\alpha]_D^{24} = +19.8$ (*c* 2.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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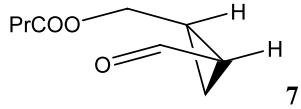
Tetrahedron: Asymmetry *14 (2003) 1211*



7

$C_9H_{14}O_3$

(1*R*,2*S*)-1-Butryloxymethyl-2-formylcyclopropane

E.e. = 100%

$[\alpha]_D^{24} = +88.9$ (*c* 2.14, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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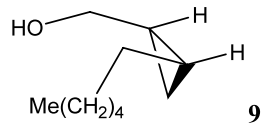
Tetrahedron: Asymmetry *14 (2003) 1211*



9

$C_{10}H_{20}O$

(1*R*,2*S*)-2-Hexyl-1-hydroxymethylcyclopropane

E.e. = 100%

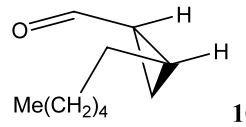
$[\alpha]_D^{24}$ = +23.1 (*c* 1.8, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



10

$C_{10}H_{18}O$

(1*R*,2*S*)-1-Formyl-2-hexylcyclopropane

E.e. = 100%

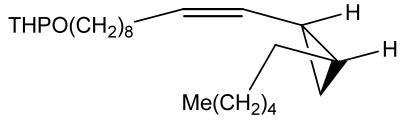
$[\alpha]_D^{24}$ = +23.6 (*c* 0.12, $CHCl_3$) or +16.4 (*c* 1.3, $CHCl_3$)

Source of chirality: asymmetric synthesis via two independent routes

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



11

$C_{23}H_{42}O_2$

(1′*Z*,1*R*,2*S*)-2-Hexyl-1-[[(10′-tetrahydropyranyl)oxy]dec-1′-en-1′-yl]cyclopropane

E.e. = 100%

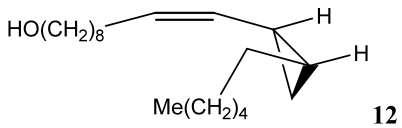
$[\alpha]_D^{24}$ = +36.8 (*c* 0.06, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



12

$C_{18}H_{34}O$

(1′*Z*,1*R*,2*S*)-2-Hexyl-1-(10′-hydroxydec-1′-en-1′-yl)cyclopropane

E.e. = 100%

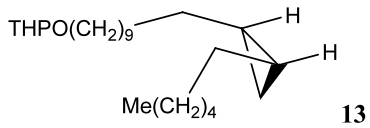
$[\alpha]_D^{24}$ = +9.7 (*c* 0.76, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



13

$C_{23}H_{44}O_2$

(1*R*,2*S*)-2-Hexyl-1-[[(10′-tetrahydropyranyl)oxy]dec-1′-yl]cyclopropane

E.e. = 100%

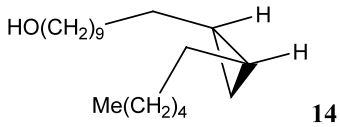
$[\alpha]_D^{24} = +6.0$ (*c* 0.06, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



14

$C_{19}H_{38}O$

(1*R*,2*S*)-2-Hexyl-1-(10′-hydroxydec-1′-yl)cyclopropane

E.e. = 100%

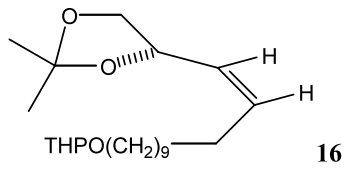
$[\alpha]_D^{24} = +11.0$ (*c* 0.35, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



16

$C_{21}H_{38}O_4$

(1*Z*,4′*S*)-2-(2′,2′-Dimethyl-1′,3′-dioxolan-4′-yl)-1-[[(10″-tetrahydropyranyl)oxy]-decyl]ethene

E.e. = 100%

$[\alpha]_D^{24} = +32.6$ (*c* 1.27, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (4′*S*)

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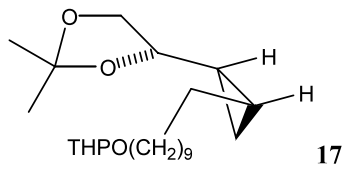
Tetrahedron: Asymmetry *14 (2003) 1211*



17

$C_{22}H_{40}O_4$

(1*S*,2*R* 4′S)-2-(2′,2′-Dimethyl-1′,3′-dioxolan-4′-yl)-1-[[(10″-tetrahydropyranyl)oxy]decyl]cyclopropane

E.e. = 100%

$[\alpha]_D^{24} = +26.2$ (*c* 2.31, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,2*R*,4′*S*)

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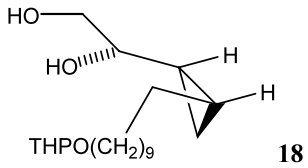
Tetrahedron: Asymmetry *14 (2003) 1211*



18

$C_{19}H_{36}O_4$

(1*S*,2*R*,1′*S*)-2-(1′,2′-Dihydroxyeth-1′-yl)-1-[[(10″-tetrahydropyranyl)oxy]decyl]cyclopropane

E.e. = 100%

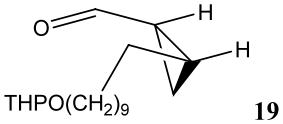
$[\alpha]_D^{24} = -13.2$ (*c* 2.13, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



19

$C_{18}H_{32}O_3$

(1*S*,2*R*)-2-Formyl-1-[[(10′-tetrahydropyranyl)oxy]decyl]cyclopropane

E.e. = 100%

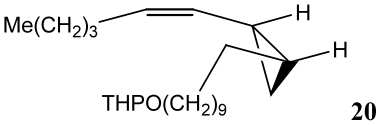
$[\alpha]_D^{24} = +45.1$ (*c* 1.69, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



20

$C_{23}H_{42}O_2$

(1′*Z*,1*S*,2*R*)-2-(Hex-1′-en-1′-yl)-1-[[(10″-tetrahydropyranyl)oxy]decyl]cyclopropane

E.e. = 100%

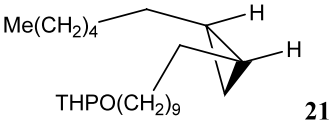
$[\alpha]_D^{24} = +23.1$ (*c* 1.27, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



21

$C_{23}H_{44}O_2$

(1*S*,2*R*)-2-Hexyl-1-[[(10′-tetrahydropyranyl)oxy]decyl]cyclopropane

E.e. = 100%

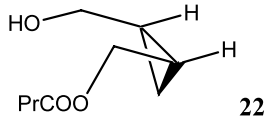
$[\alpha]_D^{24} = +12.8$ (*c* 2.35, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



22

$C_{10}H_{18}O_3$

(1*S*,2*R*)-1-Butyroyloxymethyl-2-hydroxymethylcyclopropane

E.e. = 100%

$[\alpha]_D^{24} = -18.1$ (*c* 1.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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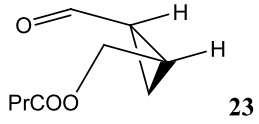
Tetrahedron: Asymmetry *14 (2003) 1211*



23

$C_{10}H_{16}O_3$

(1*S*,2*R*)-1-Butyryloxymethyl-2-formylcyclopropane

E.e. = 100%

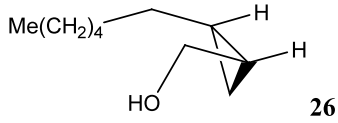
$[\alpha]_D^{24} = -66.0$ (*c* 1.45, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Geoffrey D. Coxon, Juma R. Al-Dulayymi, Mark S. Baird, Stefan Knobl, Evan Roberts and David E. Minnikin*

Tetrahedron: Asymmetry *14 (2003) 1211*



26

$C_{10}H_{20}O$

(1*S*,2*R*)-2-Hexyl-1-hydroxymethylcyclopropane

E.e. = 100%

$[\alpha]_D^{24} = -26.1$ (*c* 1.1, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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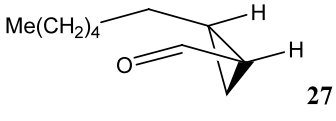
Tetrahedron: Asymmetry *14 (2003) 1211*



27

$C_{10}H_{18}O$

(1*S*,2*R*)-1-Formyl-2-hexylcyclopropane

E.e. = 100%

$[\alpha]_D^{24} = -18.6$ (*c* 1.4, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

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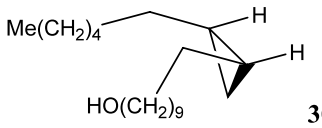
Tetrahedron: Asymmetry *14 (2003) 1211*



30

$C_{19}H_{38}O$

(1*S*,2*R*)-2-Hexyl-1-(10′-hydroxydec-1′-yl)cyclopropane

E.e. = 100%

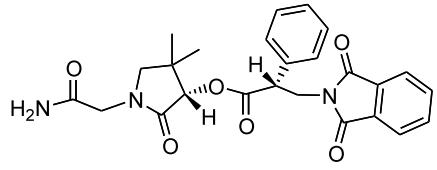
$[\alpha]_D^{24} = +14.2$ (*c* 1.52, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Rhalid Akkari, Monique Calmès,* Delphine Di Malta, Françoise Escale and Jean Martinez

Tetrahedron: Asymmetry *14 (2003) 1223*



$C_{25}H_{25}N_3O_6$

(1-Carbamoylmethyl-4,4-dimethyl-2-oxopyrrolidinyl)-3-phthalimido-2-phenylpropionate

E.e. = 100%; d.e. = 86%

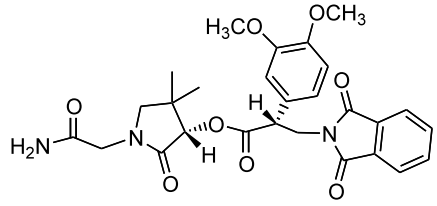
$[\alpha]_D^{20} = +21$ (*c* 2 in AcOEt)

Source of chirality: resin-supported (*S*)-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl) acetic acid

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

Rhalid Akkari, Monique Calmès,* Delphine Di Malta, Françoise Escale and Jean Martinez

Tetrahedron: Asymmetry *14 (2003) 1223*



$C_{27}H_{29}N_3O_8$

(1-Carbamoylmethyl-4,4-dimethyl-2-oxopyrrolidinyl)-3-phthalimido-2-(3,4-dimethoxyphenyl)propionate

E.e. = 100%; d.e. = 70%

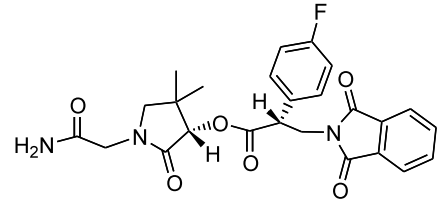
$[\alpha]_D^{20} = +18$ (*c* 2 in AcOEt)

Source of chirality: resin-supported (*S*)-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl) acetic acid

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

Rhalid Akkari, Monique Calmès,* Delphine Di Malta, Françoise Escale and Jean Martinez

Tetrahedron: Asymmetry *14 (2003) 1223*



$C_{25}H_{24}N_3O_6F$

(1-Carbamoylmethyl-4,4-dimethyl-2-oxopyrrolidinyl)-3-phthalimido-2-(4-fluorophenyl)propionate

E.e. = 100%; d.e. = 84%

$[\alpha]_D^{20} = +25$ (*c* 2 in AcOEt)

Source of chirality: resin-supported (*S*)-(3-hydroxy-4,4-dimethyl-2-oxopyrrolidin-1-yl) acetic acid

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