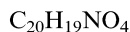
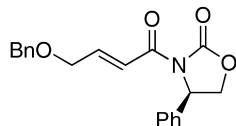


Stereochemistry abstracts

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



[4*R*,3(2*E*)]-3-(4-Benzyloxy-2-butenoyl)-4-phenyl-2-oxazolidinone

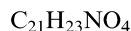
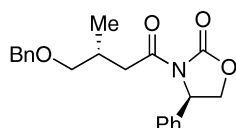
$$[\alpha]_D^{26} = -67.3 \text{ (} c \text{ 2.07, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

Absolute configuration: (*R*)

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



[4*R*,3(3*R*)]-3-(4-Benzyloxy-3-methylbutanoyl)-4-phenyl-2-oxazolidinone

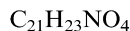
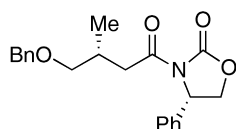
$$[\alpha]_D^{22} = -52.8 \text{ (} c \text{ 2.08, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

Absolute configuration: [4*R*,3(3*R*)]

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



[4*S*,3(3*R*)]-3-(4-Benzyloxy-3-methylbutanoyl)-4-phenyl-2-oxazolidinone

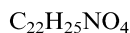
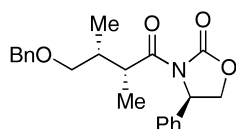
$$[\alpha]_D^{18} = +43.5 \text{ (} c \text{ 1.08, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

Absolute configuration: [4*S*,3(3*R*)]

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



[4*R*,3(2*R*,3*R*)]-3-(4-Benzyloxy-2,3-dimethylbutanoyl)-4-phenyl-2-oxazolidinone

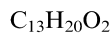
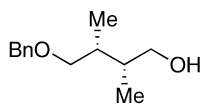
$$[\alpha]_D^{20} = -82.0 \text{ (} c \text{ 2.01, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

Absolute configuration: [4*R*,3(2*R*,3*R*)]

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



(2*R*,3*R*)-4-Benzyloxy-2,3-dimethyl-1-butanol

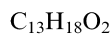
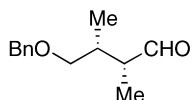
$$[\alpha]_D^{21} = +6.2 \text{ (} c \text{ 2.00, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



(2*R*,3*R*)-4-Benzyloxy-2,3-dimethylbutanal

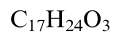
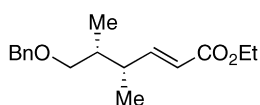
$$[\alpha]_D^{21} = -39.8 \text{ (} c \text{ 2.16, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



Ethyl (2*E*,4*S*,5*R*)-6-benzyloxy-4,5-dimethyl-2-hexenoate

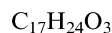
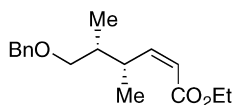
$$[\alpha]_D^{22} = -46.2 \text{ (} c \text{ 2.09, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



Ethyl (2*Z*,4*S*,5*R*)-6-benzyloxy-4,5-dimethyl-2-hexenoate

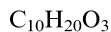
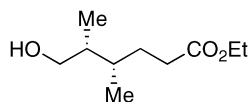
$$[\alpha]_D^{24} = +22.6 \text{ (} c \text{ 1.99, CHCl}_3 \text{)}$$

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



Ethyl (4*S*,5*R*)-6-hydroxy-4,5-dimethylhexanoate

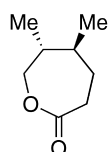
$[\alpha]_D^{22} = -10.6$ (*c* 2.40, $CHCl_3$)

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



(5*S*,6*R*)-5,6-Dimethyloxepan-2-one

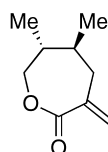
$[\alpha]_D^{21} = -43.1$ (*c* 2.02, $CHCl_3$)

Source of chirality: D-phenylglycine

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

Seiichi Nakamura, Fumiaki Kikuchi and Shunichi Hashimoto*

Tetrahedron: Asymmetry 19 (2008) 1059



(5*S*,6*R*)-5,6-Dimethyl-3-methylenesoxepan-2-one

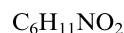
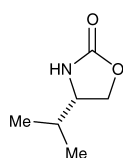
$[\alpha]_D^{21} = -6.7$ (*c* 2.01, $CHCl_3$)

Source of chirality: D-phenylglycine

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

David Benoit, Elliot Coulbeck, Jason Eames* and Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1068



(*S*)-4-Isopropyl-oxazolidin-2-one

Ee >98%

$[\alpha]_D^{26} = +15.5$ (*c* 5.2, $CHCl_3$)

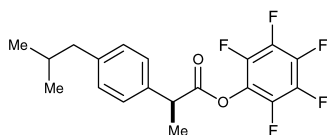
$[\alpha]_D^{26} = -16.1$ (*c* 5.2, EtOH)

Source of chirality: chiral pool

Absolute configuration: (*S*)

David Benoit, Elliot Coulbeck, Jason Eames* and Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1068



$C_{19}H_{17}F_5O_2$

(S)-Pentafluorophenyl 2-(4-isobutylphenyl)propionate

Ee >98%

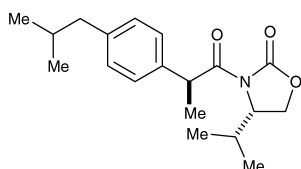
$[\alpha]_D^{26} = +91.7$ (c 29.6, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (S)

David Benoit, Elliot Coulbeck, Jason Eames* and Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1068



$C_{19}H_{27}NO_3$

(2S,4S)-3-[2'-(4-Isobutylphenyl)propionyl]-4-isopropyl-oxazolidin-2-one

De >98%; Ee >98%

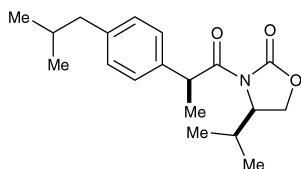
$[\alpha]_D^{26} = +108.9$ (c 9.7, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (S,S)

David Benoit, Elliot Coulbeck, Jason Eames* and Majid Motevalli

Tetrahedron: Asymmetry 19 (2008) 1068



$C_{19}H_{27}NO_3$

(2S,4R)-3-[2'-(4-Isobutylphenyl)propionyl]-4-isopropyl-oxazolidin-2-one

De >98%; Ee >98%

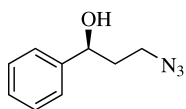
$[\alpha]_D^{26} = +31.5$ (c 8.4, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (S,R)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeenza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_9H_{11}N_3O$

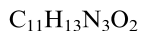
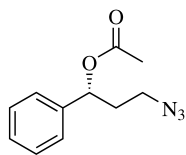
(S)-3-Azido-1-phenylpropan-1-ol

Ee = 99% (by chiral HPLC)

$[\alpha]_D^{30} = -33.5$ (c 6.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)



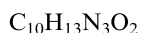
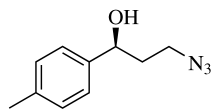
(R)-3-Azido-1-phenylpropyl acetate

Ee = 92% (by chiral HPLC)

 $[\alpha]_{\text{D}}^{30} = +56.4$ (c 3.0, CHCl_3)

Source of chirality: enzymatic resolution

Absolute configuration: (3R)



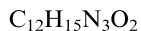
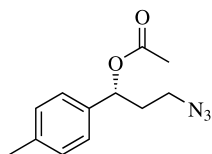
(S)-3-Azido-1-p-tolylpropan-1-ol

Ee >99% (by chiral HPLC)

 $[\alpha]_{\text{D}}^{30} = -26.9$ (c 0.5, CHCl_3)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)



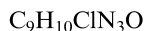
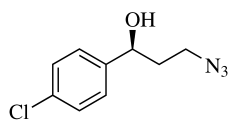
(R)-3-Azido-1-p-tolylpropyl acetate

Ee = 94% (by chiral HPLC)

 $[\alpha]_{\text{D}}^{30} = +62.1$ (c 0.6, CHCl_3)

Source of chirality: enzymatic resolution

Absolute configuration: (3R)



(S)-3-Azido-1-(4-chlorophenyl)propan-1-ol

Ee = 99% (by chiral HPLC)

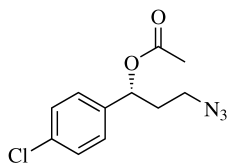
 $[\alpha]_{\text{D}}^{30} = -20.3$ (c 0.7, CHCl_3)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_{11}H_{12}ClN_3O_2$

(*R*)-3-Azido-1-(4-chlorophenyl)propyl acetate

Ee = 93% (by chiral HPLC)

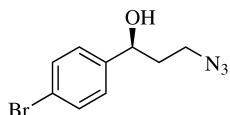
$[\alpha]_D^{30} = +55.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_9H_{10}BrN_3O$

(*S*)-3-Azido-1-(4-bromophenyl)propan-1-ol

Ee = 99% (by chiral HPLC)

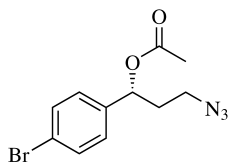
$[\alpha]_D^{30} = -23.1$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_{11}H_{12}BrN_3O_2$

(*R*)-3-Azido-1-(4-bromophenyl)propyl acetate

Ee = 99% (by chiral HPLC)

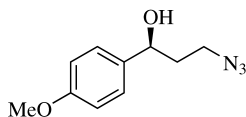
$[\alpha]_D^{30} = +40.8$ (*c* 1.2, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_{10}H_{13}N_3O_2$

(*S*)-3-Azido-1-(4-methoxyphenyl)propan-1-ol

Ee >99% (by chiral HPLC)

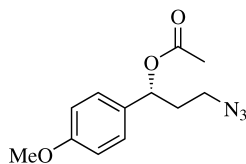
$[\alpha]_D^{30} = -18.4$ (*c* 0.6, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_{12}H_{15}N_3O_3$

(*R*)-3-Azido-1-(4-methoxyphenyl)propyl acetate

Ee = 96% (by chiral HPLC)

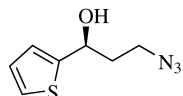
$[\alpha]_D^{30} = +77.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_7H_9N_3OS$

(*S*)-3-Azido-1-(thiophen-2-yl)propan-1-ol

Ee = 96% (by chiral HPLC)

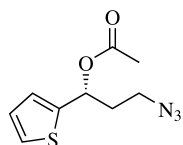
$[\alpha]_D^{30} = -17.8$ (*c* 1.7, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Ahmed Kamal,* M. Shaheer Malik, Ahmad Ali Shaik and Shaik Azeeza

Tetrahedron: Asymmetry 19 (2008) 1078



$C_9H_{11}N_3O_2S$

(*R*)-3-Azido-1-(thiophen-2-yl)propyl acetate

Ee = 76% (by chiral HPLC)

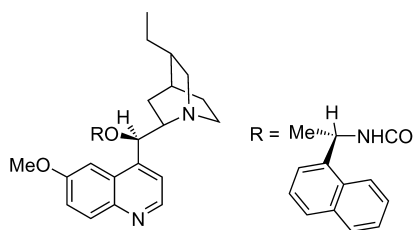
$[\alpha]_D^{30} = +67.3$ (*c* 1.1, $CHCl_3$)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Gloria Uccello-Barretta,* Federica Balzano, Silvia Bardoni,
Letizia Vanni, Laura Giurato and Salvatore Guccione*

Tetrahedron: Asymmetry 19 (2008) 1084



$C_{33}H_{37}N_3O_3$

9-*O*-[(*S*)-1-(1-Naphthyl)ethyl]carbamate]dihydroquinine

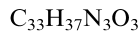
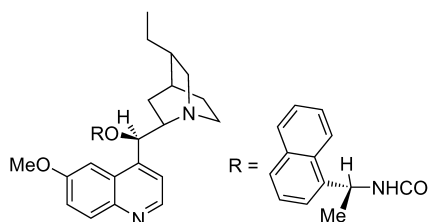
$[\alpha]_D^{25} = -6.8$ (*c* 1, $CHCl_3$)

Source of chirality: quinine and (*S*)-(+)-1-(1-naphthyl)ethyl isocyanate

Absolute configuration: (*S*)

Gloria Uccello-Barretta,* Federica Balzano, Silvia Bardoni,
Letizia Vanni, Laura Giurato and Salvatore Guccione*

Tetrahedron: Asymmetry 19 (2008) 1084



9-*O*-[(*R*)-1-(1-Naphthyl)ethylcarbamate]dihydroquinine

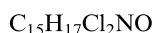
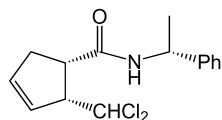
$[\alpha]_D^{25} = +16.05$ (*c* 1, $CHCl_3$)

Source of chirality: quinine and (*R*)-(-)-1-(1-naphthyl)ethyl isocyanate

Absolute configuration: (*R*)

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



(1*S*,2*R*)-(Dichloromethyl)-*N*-[(1*R*)-1-phenylethyl]cyclopent-3-ene-1-carboxamide

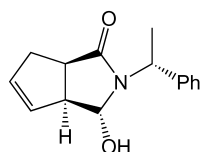
$[\alpha]_D^{20} = +69$ (*c* 0.5, CH_3OH)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

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

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



(3*aS*,6*aR*)-3*R*-Hydroxy-2-[(1*R*)-phenylethyl]-3,3*a*,6,6*a*-tetrahydrocyclopenta[*c*]pyrrol-1(2*H*)-one

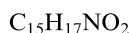
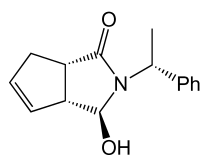
$[\alpha]_D^{20} = +142.4$ (*c* 0.65, CH_3OH)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

Absolute configuration: (3*aS*,6*aR*,3*R*,1*R*)

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



(3*aR*,6*aS*)-3*S*-Hydroxy-2-[(1*R*)-phenylethyl]-3,3*a*,6,6*a*-tetrahydrocyclopenta[*c*]pyrrol-1(2*H*)-one

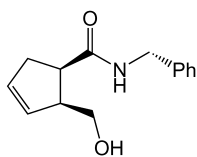
$[\alpha]_D^{20} = +37.8$ (*c* 0.8, CH_3OH)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

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

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



$C_{15}H_{19}NO_2$

(1*R*,2*S*)-2-(Hydroxymethyl)-*N*-[(1*R*)-1-phenylethyl]cyclopent-3-ene-1-carboxamide

Ee >95%

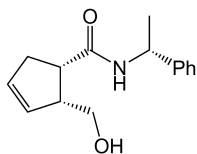
$[\alpha]_D^{20} = +168.5$ (*c* 0.425, CH_3OH)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

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

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



$C_{15}H_{19}NO_2$

(1*S*,2*R*)-2-(Hydroxymethyl)-*N*-[(1*R*)-1-phenylethyl]cyclopent-3-ene-1-carboxamide

Ee >95%

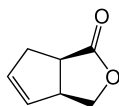
$[\alpha]_D^{20} = -1.8$ (*c* 1.05, CH_3OH)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

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

Airat M. Gimazetdinov,* Nikolay S. Vostrikov and Mansur S. Miftakhov

Tetrahedron: Asymmetry 19 (2008) 1094



$C_7H_8O_2$

(-)-(1*R*,5*S*)-3-Oxabicyclo[3.3.0]oct-6-en-2-one

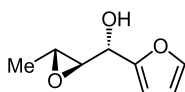
$[\alpha]_D^{20} = -68.0$ (*c* 0.93, $CHCl_3$)

Source of chirality: (+)-[(1*R*)-1-phenylethyl]amine

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

Hideaki Akaike, Hidekazu Horie, Keisuke Kato and Hiroyuki Akita*

Tetrahedron: Asymmetry 19 (2008) 1100



$C_8H_{10}O_3$

(1*S*,2*R*,3*R*)-1-(2-Furyl)-2,3-epoxybutanol

Ee = >99%

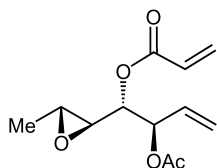
$[\alpha]_D^{24} = -42.2$ (*c* 0.67, $CHCl_3$)

Source of chirality: lipase

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

Hideaki Akaike, Hidekazu Horie, Keisuke Kato and Hiroyuki Akita*

Tetrahedron: Asymmetry 19 (2008) 1100



$C_{12}H_{16}O_5$

(3*R*,4*R*,5*S*,6*R*)-3-Acetoxy-4-acryloyloxy-5,6-epoxy-1-heptene

Ee = >99%

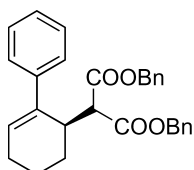
$[\alpha]_D^{25} = +19.1$ (*c* 0.54, EtOH)

Source of chirality: lipase

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

Long Jin, Tetsuhiro Nemoto, Hiroshi Nakamura and Yasumasa Hamada*

Tetrahedron: Asymmetry 19 (2008) 1106



$C_{29}H_{28}O_4$

(1*R*)-2-Phenyl-2-cyclohexen-1-yl malonic acid dibenzyl ester

Ee = 86%

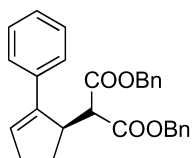
$[\alpha]_D^{24} = -35.4$ (*c* 0.32, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Long Jin, Tetsuhiro Nemoto, Hiroshi Nakamura and Yasumasa Hamada*

Tetrahedron: Asymmetry 19 (2008) 1106



$C_{28}H_{26}O_4$

(1*R*)-2-Phenyl-2-cyclopenten-1-yl malonic acid dibenzyl ester

Ee = 89%

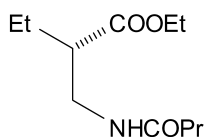
$[\alpha]_D^{19} = -43.2$ (*c* 0.87, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Mónika Fitz, Enikő Forró, Edina Vigóczki, László Lázár and Ferenc Fülöp*

Tetrahedron: Asymmetry 19 (2008) 1114



$C_{11}H_{21}NO_3$

Ethyl (*S*)-2-(butyramidomethyl)butanoate

Ee = 95%

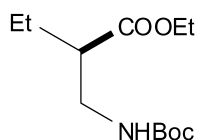
$[\alpha]_D^{25} = +26.0$ (*c* 1.0, MeOH)

Source of chirality: CAL-A-catalysed N-acylation

Absolute configuration: (*S*)

Mónika Fitz, Enikő Forró, Edina Vigóczki, László Lázár and Ferenc Fülöp*

Tetrahedron: Asymmetry 19 (2008) 1114



$C_{12}H_{23}NO_4$

Ethyl (*R*)-2-[(*tert*-butoxycarbonylamino)methyl]butanoate

Ee = 85%

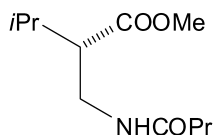
$[\alpha]_D^{25} = -18.9$ (*c* 0.5, MeOH)

Source of chirality: CAL-A-catalysed N-acylation

Absolute configuration: (*R*)

Mónika Fitz, Enikő Forró, Edina Vigóczki, László Lázár and Ferenc Fülöp*

Tetrahedron: Asymmetry 19 (2008) 1114



$C_{11}H_{21}NO_3$

Methyl (*S*)-2-butyramidomethyl-3-methylbutanoate

Ee = 78%

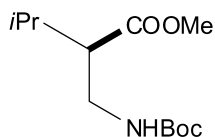
$[\alpha]_D^{25} = +26.4$ (*c* 1.0, MeOH)

Source of chirality: CAL-A-catalysed N-acylation

Absolute configuration: (*S*)

Mónika Fitz, Enikő Forró, Edina Vigóczki, László Lázár and Ferenc Fülöp*

Tetrahedron: Asymmetry 19 (2008) 1114



$C_{12}H_{23}NO_4$

Methyl (*R*)-2-(*tert*-butoxycarbonylamino)methyl-3-methylbutanoate

Ee = 76%

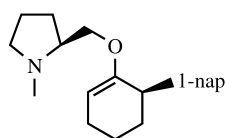
$[\alpha]_D^{25} = -13.4$ (*c* 1.0, MeOH)

Source of chirality: CAL-A-catalysed N-acylation

Absolute configuration: (*R*)

Gopal K. Datta, Patrik Nordeman, Jakob Dackenberg, Peter Nilsson, Anders Hallberg and Mats Larhed*

Tetrahedron: Asymmetry 19 (2008) 1120



$C_{22}H_{27}NO$

[2-(*R*)-2-(1-Methyl-pyrrolidine-2-(*S*)-ylmethoxy)-cyclohex-2-enyl]-naphthalene

De = 95% (conditions A) and 98% (conditions B)

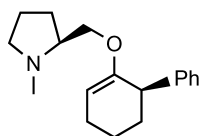
$[\alpha]_D^{23} = -31$ (*c* 1, CHCl₃)

Source of chirality: chelation-controlled asymmetric synthesis

Absolute configuration: (*R*)

Gopal K. Datta, Patrik Nordeman, Jakob Dackenberg, Peter Nilsson, Anders Hallberg and Mats Larhed*

Tetrahedron: Asymmetry 19 (2008) 1120



$C_{18}H_{25}NO$

[(*R*)-2-(1-Methyl-pyrrolidine-2-(*S*)-ylmethoxy)-cyclohex-2-enyl]-benzene

De = 98% (conditions A) and 98% (conditions B)

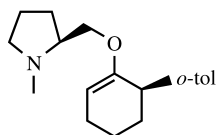
$[\alpha]_D^{23} = -52$ (*c* 1, $CHCl_3$)

Source of chirality: chelation-controlled asymmetric synthesis

Absolute configuration: (*R*)

Gopal K. Datta, Patrik Nordeman, Jakob Dackenberg, Peter Nilsson, Anders Hallberg and Mats Larhed*

Tetrahedron: Asymmetry 19 (2008) 1120



$C_{19}H_{27}NO$

{2-[1-(*R*)-2-(1-Methyl-pyrrolidine-2-(*S*)-ylmethoxy)-cyclohex-2-enyl]-methyl}-benzene

De = 94% (conditions A) and 98% (conditions B)

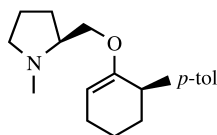
$[\alpha]_D^{23} = -54$ (*c* 1, $CHCl_3$)

Source of chirality: chelation-controlled asymmetric synthesis

Absolute configuration: (*R*)

Gopal K. Datta, Patrik Nordeman, Jakob Dackenberg, Peter Nilsson, Anders Hallberg and Mats Larhed*

Tetrahedron: Asymmetry 19 (2008) 1120



$C_{19}H_{27}NO$

{4-[1-(*R*)-2-(1-Methyl-pyrrolidine-2-(*S*)-ylmethoxy)-cyclohex-2-enyl]-methyl}-benzene

De = 96% (conditions A) and 98% (conditions B)

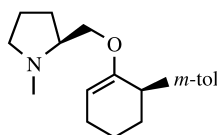
$[\alpha]_D^{23} = -40$ (*c* 1, $CHCl_3$)

Source of chirality: chelation-controlled asymmetric synthesis

Absolute configuration: (*R*)

Gopal K. Datta, Patrik Nordeman, Jakob Dackenberg, Peter Nilsson, Anders Hallberg and Mats Larhed*

Tetrahedron: Asymmetry 19 (2008) 1120



$C_{19}H_{27}NO$

{3-[1-(*R*)-2-(1-Methyl-pyrrolidine-2-(*S*)-ylmethoxy)-cyclohex-2-enyl]-methyl}-benzene

De = 97% (conditions A) and 98% (conditions B)

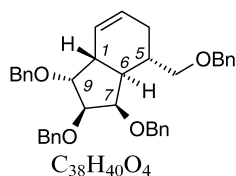
$[\alpha]_D^{23} = -50$ (*c* 1, $CHCl_3$)

Source of chirality: chelation-controlled asymmetric synthesis

Absolute configuration: (*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*R*,5*R*,6*R*,7*R*,8*R*,9*R*)-7,8,9-Tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]non-2-ene

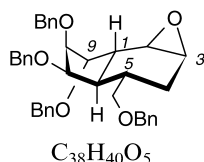
$[\alpha]_D = +46.2$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*R*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*R*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)-7,8,9-Tri-*O*-benzyl-2,3-epoxy-5-benzylloxymethyl-bicyclo[4.3.0]nonane

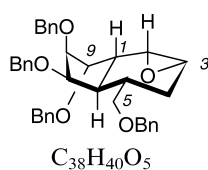
$[\alpha]_D = +43.9$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*R*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*S*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)-7,8,9-Tri-*O*-benzyl-2,3-epoxy-5-benzylloxymethyl-bicyclo[4.3.0]nonane

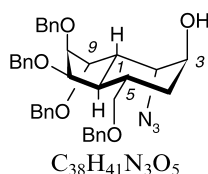
$[\alpha]_D = +35.3$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*S*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)-2-Azido-2-deoxy-3-hydroxy-7,8,9-tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]nonane

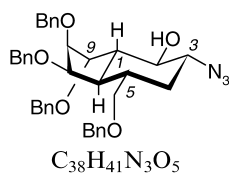
$[\alpha]_D = +6.5$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*R*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)-3-Azido-3-deoxy-2-hydroxy-7,8,9-tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]nonane

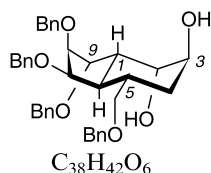
$[\alpha]_D = +23.7$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*R*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)-2,3-Di-hydroxy-7,8,9-tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]nonane

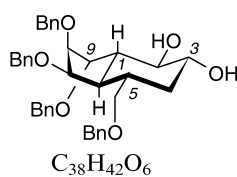
$[\alpha]_D = -1.3$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*R*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)-2,3-Di-hydroxy-7,8,9-tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]nonane

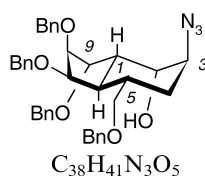
$[\alpha]_D = +33.8$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*R*,3*R*,5*R*,6*R*,7*R*,8*R*,9*R*)

Sławomir Jarosz,* Anna Błońska and Piotr Cmoch

Tetrahedron: Asymmetry 19 (2008) 1127



(1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)-3-Azido-3-deoxy-2-hydroxy-7,8,9-tri-*O*-benzyl-5-benzylloxymethyl-bicyclo[4.3.0]nonane

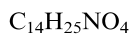
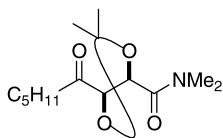
$[\alpha]_D = -7.4$ (*c* 1, $CHCl_3$)

Source of chirality: chiral pool

Absolute configuration: (1*S*,2*S*,3*S*,5*R*,6*R*,7*R*,8*R*,9*R*)

Kavirayani R. Prasad* and Bandita Swain

Tetrahedron: Asymmetry 19 (2008) 1134



(4*R*,5*R*)-5-Hexanoyl-*N,N*,2,2-tetramethyl-1,3-dioxolane-4-carboxamide

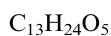
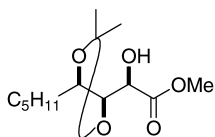
$$[\alpha]_D^{25} = +15.4 \text{ (} c \text{ 2.2, CHCl}_3 \text{)}$$

Source of chirality: L-(+)-tartaric acid

Absolute configuration: (4*R*,5*R*)

Kavirayani R. Prasad* and Bandita Swain

Tetrahedron: Asymmetry 19 (2008) 1134



(*R*)-Methyl 2-hydroxy-2-((4*R*,5*R*)-2,2-dimethyl-5-pentyl-1,3-dioxolan-4-yl)acetate

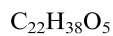
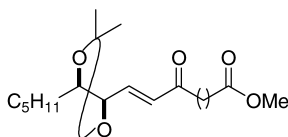
$$[\alpha]_D^{25} = +21.3 \text{ (} c \text{ 0.5, CHCl}_3 \text{)}$$

Source of chirality: L-(+)-tartaric acid

Absolute configuration: (4*R*,5*R*)

Kavirayani R. Prasad* and Bandita Swain

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(*E*)-Methyl 11-((4*S*,5*R*)-2,2-dimethyl-5-pentyl-1,3-dioxolan-4-yl)-9-oxoundec-10-enoate

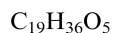
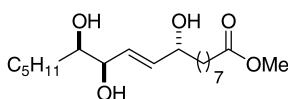
$$[\alpha]_D^{25} = +6.3 \text{ (} c \text{ 0.6, CHCl}_3 \text{)}$$

Source of chirality: L-(+)-tartaric acid

Absolute configuration: (*E*,4*S*,5*R*)

Kavirayani R. Prasad* and Bandita Swain

Tetrahedron: Asymmetry 19 (2008) 1134



(*E*,9*R*,12*R*,13*R*)-Methyl 9,12,13-trihydroxyoctadec-10-enoate

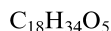
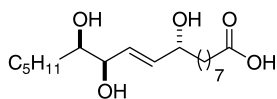
$$[\alpha]_D^{25} = +10 \text{ (} c \text{ 0.8, CHCl}_3 \text{)}$$

Source of chirality: L-(+)-tartaric acid

Absolute configuration: (*E*,9*R*,12*R*,13*R*)

Kavirayani R. Prasad* and Bandita Swain

Tetrahedron: Asymmetry 19 (2008) 1134



(*E*,9*R*,12*R*,13*R*)-9,12,13-Trihydroxyoctadec-10-enoic acid

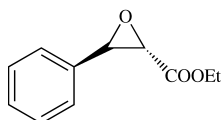
$$[\alpha]_D^{25} = +12 \text{ (} c \text{ 1, MeOH)}$$

Source of chirality: L-(+)-tartaric acid

Absolute configuration: (*E*,9*R*,12*R*,13*R*)

Avala Vedamayee Devi, Challa Lahari, Lakshmi Swarnalatha and N. W. Fadnavis*

Tetrahedron: Asymmetry 19 (2008) 1139



Ethyl (2*S*,3*R*)-3-phenyloxirane-2-carboxylate

Ee >99%

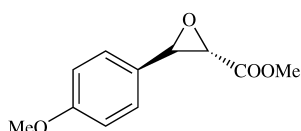
$$[\alpha]_D^{25} = 156 \text{ (} c \text{ 1, CHCl}_3)$$

Source of chirality: enzymatic resolution

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

Avala Vedamayee Devi, Challa Lahari, Lakshmi Swarnalatha and N. W. Fadnavis*

Tetrahedron: Asymmetry 19 (2008) 1139



Methyl (2*S*,3*R*)-3-(4-methoxyphenyl)oxirane-2-carboxylate

Ee >99%

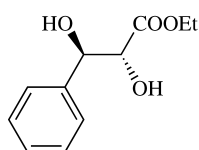
$$[\alpha]_D^{25} = 196 \text{ (} c \text{ 1, ethanol)}$$

Source of chirality: enzymatic resolution

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

Avala Vedamayee Devi, Challa Lahari, Lakshmi Swarnalatha and N. W. Fadnavis*

Tetrahedron: Asymmetry 19 (2008) 1139



Ethyl (2*R*,3*R*)-2,3-dihydroxy-3-phenylpropanoate

Ee = 94%

De = 78%

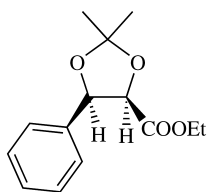
$$[\alpha]_D^{25} = -22 \text{ (} c \text{ 1, CHCl}_3)$$

Source of chirality: enzymatic hydrolysis

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

Avala Vedamayee Devi, Challa Lahari, Lakshmi Swarnalatha and N. W. Fadnavis*

Tetrahedron: Asymmetry 19 (2008) 1139



Ethyl (4*R*,5*R*)-2,2-dimethyl-5-phenyl-1,3-dioxolane-4-carboxylate

Ee >94%

De = 78%

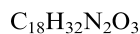
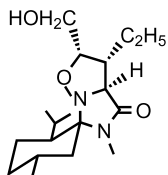
$[\alpha]_D^{25} = -52$ (*c* 1, CH₂Cl₂)

Source of chirality: enzymatic hydrolysis

Absolute configuration: (4*R*,5*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(1*S*,2*S*,2'*S*,3'*R*,3'*aS*,5*R*)-3'-Ethyl-2'-(hydroxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

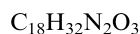
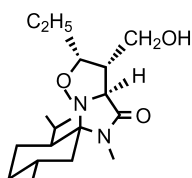
$[\alpha]_D = +62$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (–)-menthone

Absolute configuration: (1*S*,2*S*,2'*S*,3'*R*,3'*aS*,5*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(1*S*,2*S*,2'*R*,3'*S*,3'*aS*,5*R*)-2'-Ethyl-3'-(hydroxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

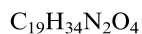
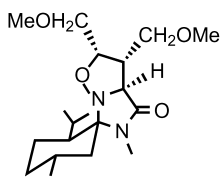
$[\alpha]_D = +29$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (–)-menthone

Absolute configuration: (1*S*,2*S*,2'*R*,3'*S*,3'*aS*,5*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(1*S*,2*S*,2'*S*,3'*S*,3'*aS*,5*R*)-2',3'-Bis(methoxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

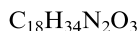
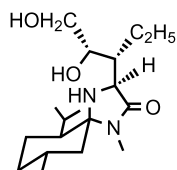
$[\alpha]_D = +26$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (–)-menthone

Absolute configuration: (1*S*,2*S*,2'*S*,3'*S*,3'*aS*,5*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(3*S*,5*R*,6*S*,9*R*)-3-[(1*R*,2*S*)-1-Ethyl-2,3-dihydroxypropyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

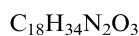
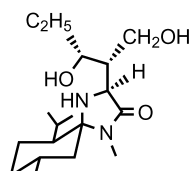
$[\alpha]_D = +8$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (–)-menthone

Absolute configuration: (3*S*,5*R*,6*S*,9*R*)-3-(1*R*,2*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(3*S*,5*R*,6*S*,9*R*)-3-[(1*S*,2*R*)-2-Hydroxy-1-(hydroxymethyl)butyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

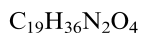
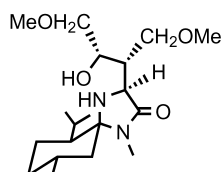
$[\alpha]_D = +10$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (–)-menthone

Absolute configuration: (3*S*,5*R*,6*S*,9*R*)-3-(1*S*,2*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(3*S*,5*R*,6*S*,9*R*)-3-[(1*S*,2*S*)-2-Hydroxy-3-methoxy-1-(methoxymethyl)propyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

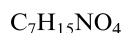
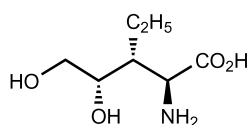
$[\alpha]_D = +4$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (–)-menthone

Absolute configuration: (3*S*,5*R*,6*S*,9*R*)-3-(1*S*,2*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*S*,3*R*,4*S*)-2-Amino-3-ethyl-4,5-dihydroxy-pentanoic acid

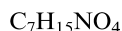
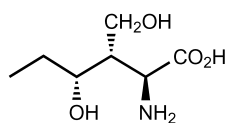
$[\alpha]_D = -7$ (*c* 1.0, H_2O)

Source of chirality: (–)-menthone

Absolute configuration: (2*S*,3*R*,4*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*S*,3*S*,4*R*)-2-Amino-4-hydroxy-3-(hydroxymethyl)-hexanoic acid

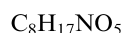
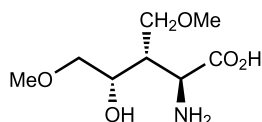
$[\alpha]_D = -31$ (*c* 0.4, H_2O)

Source of chirality: (–)-menthone

Absolute configuration: (2*S*,3*S*,4*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*S*,3*S*,4*S*)-2-Amino-4-hydroxy-5-methoxy-3-(methoxymethyl)-pentanoic acid

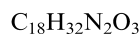
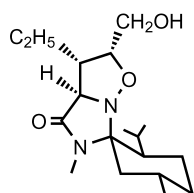
$[\alpha]_D = +5$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (–)-menthone

Absolute configuration: (2*S*,3*S*,4*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(1*R*,2*R*,2'*R*,3'*S*,3'*aR*,5*S*)-3'-Ethyl-2'-(hydroxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

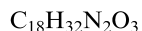
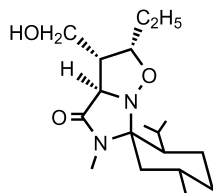
$[\alpha]_D = -61$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (1*R*,2*R*,2'*R*,3'*S*,3'*aR*,5*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(1*R*,2*R*,2'*S*,3'*R*,3'*aR*,5*S*)-2'-Ethyl-3'-(hydroxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

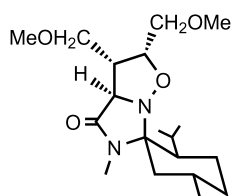
$[\alpha]_D = -27$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (1*R*,2*R*,2'*S*,3'*R*,3'*aR*,5*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



$C_{19}H_{34}N_2O_4$

(1*R*,2*R*,2'*R*,3'*R*,3'*aR*,5*S*)-2',3'-Bis(methoxymethyl)-2-isopropyl-5,5'-dimethyl-3',3'*a*-dihydro-2'*H*-spiro[cyclohexane-1,6'-imidazo[1,5-*b*]isoxazol]-4'(5'*H*)-one

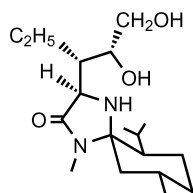
$[\alpha]_D = -26$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (1*R*,2*R*,2'*R*,3'*R*,3'*aR*,5*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



$C_{18}H_{34}N_2O_3$

(3*R*,5*S*,6*R*,9*S*)-3-[(1*S*,2*R*)-1-Ethyl-2,3-dihydroxypropyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

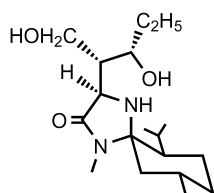
$[\alpha]_D = -9$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (3*R*,5*S*,6*R*,9*S*)-3-(1*S*,2*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



$C_{18}H_{34}N_2O_3$

(3*R*,5*S*,6*R*,9*S*)-3-[(1*R*,2*S*)-2-Hydroxy-1-(hydroxymethyl)butyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

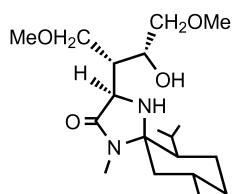
$[\alpha]_D = -10$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (3*R*,5*S*,6*R*,9*S*)-3-(1*R*,2*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



$C_{19}H_{36}N_2O_4$

(3*R*,5*S*,6*R*,9*S*)-3-[(1*R*,2*R*)-2-Hydroxy-3-methoxy-1-(methoxymethyl)propyl]-6-isopropyl-1,9-dimethyl-1,4-diazaspiro[4.5]decan-2-one

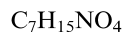
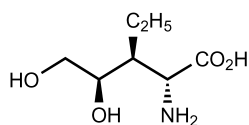
$[\alpha]_D = -4$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (+)-menthone

Absolute configuration: (3*R*,5*S*,6*R*,9*S*)-3-(1*R*,2*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*R*,3*S*,4*R*)-2-Amino-3-ethyl-4,5-dihydroxy-pentanoic acid

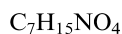
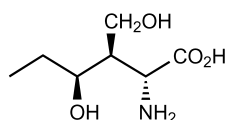
$[\alpha]_D = +7$ (*c* 1.0, H_2O)

Source of chirality: (+)-menthone

Absolute configuration: (2*R*,3*S*,4*R*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*R*,3*R*,4*S*)-2-Amino-4-hydroxy-3-(hydroxymethyl)-hexanoic acid

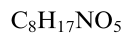
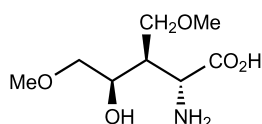
$[\alpha]_D = +28$ (*c* 1.0, H_2O)

Source of chirality: (+)-menthone

Absolute configuration: (2*R*,3*R*,4*S*)

Kaïss Aouadi, Erwann Jeanneau, Moncef Msaddek and Jean-Pierre Praly*

Tetrahedron: Asymmetry 19 (2008) 1145



(2*R*,3*R*,4*R*)-2-Amino-4-hydroxy-5-methoxy-3-(methoxymethyl)-pentanoic acid

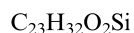
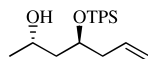
$[\alpha]_D = -5$ (*c* 1.0, H_2O)

Source of chirality: (+)-menthone

Absolute configuration: (2*R*,3*R*,4*R*)

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



(2*S*,4*S*)-4-([1-(*tert*-Butyl)-1,1-diphenylsilyl]oxy)-6-hepten-2-ol

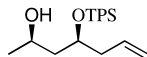
$[\alpha]_D = +41.3$ (*c* 0.9, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{23}H_{32}O_2Si$

(2*R*,4*S*)-4-([1-(*tert*-Butyl)-1,1-diphenylsilyl]oxy)-6-hepten-2-ol

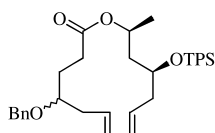
$[\alpha]_D = -3.3$ (*c* 2.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{37}H_{48}O_4Si$

(1*S*,3*S*)-3-[1-(*tert*-Butyl)-1,1-diphenylsilyl]oxy-1-methyl-5-hexenyl-4-(benzyloxy)-6-heptenoate

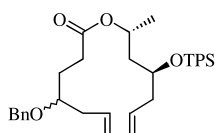
$[\alpha]_D = +25.3$ (*c* 0.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,3*S*)

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{37}H_{48}O_4Si$

(1*R*,3*S*)-3-[1-(*tert*-Butyl)-1,1-diphenylsilyl]oxy-1-methyl-5-hexenyl-4-(benzyloxy)-6-heptenoate

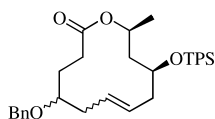
$[\alpha]_D = +36.5$ (*c* 0.35, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{35}H_{44}O_4Si$

(10*S*,12*S*)-5-[1-(Benzyloxy)-10-[1-(*tert*-butyl)-1,1-diphenylsilyl]oxy-12-methyl-1-oxa-7-cyclododecen-2-one

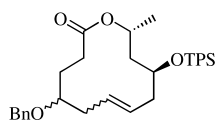
$[\alpha]_D = +9.5$ (*c* 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (10*S*,12*S*)

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{35}H_{44}O_4Si$

(10*S*,12*R*)-5-[1-(Benzyloxy)-10-[1-(*tert*-butyl)-1,1-diphenylsilyl]oxy]-12-methyl-1-oxa-7-cyclododecen-2-one

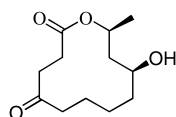
$[\alpha]_D = +45.9$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (10*S*,12*R*)

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{12}H_{20}O_4$

(10*S*,12*S*)-10-Hydroxy-12-methyl-1-oxacyclododecane-2,5-dione

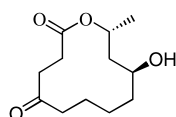
$[\alpha]_D = +68.1$ (*c* 0.46, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (10*S*,12*S*)

Palakodety Radha Krishna* and Ravula Srinivas

Tetrahedron: Asymmetry 19 (2008) 1153



$C_{12}H_{20}O_4$

(10*S*,12*R*)-10-Hydroxy-12-methyl-1-oxacyclododecane-2,5-dione

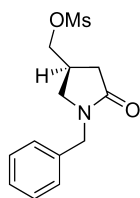
$[\alpha]_D = -52.2$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (10*S*,12*R*)

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$C_{13}H_{17}NO_4S$

N-Benzyl-(4*S*)-4-methanesulfonylmethyl-pyrrolidin-2-one

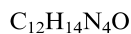
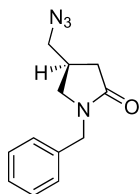
$[\alpha]_D^{25} = -3.0$ (*c* 2.36, $CHCl_3$)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*S*)

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Tetrahedron: Asymmetry 19 (2008) 1161



N-Benzyl-(4*S*)-4-azidomethyl-pyrrolidin-2-one

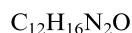
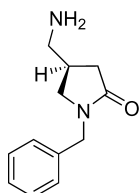
$[\alpha]_D^{25} = +2.2$ (*c* 0.90, $CHCl_3$)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*S*)

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N-Benzyl-(4*R*)-4-aminomethyl-pyrrolidin-2-one

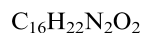
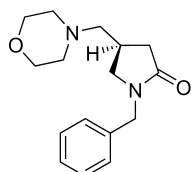
$[\alpha]_D^{25} = -6.3$ (*c* 1.90, $CHCl_3$)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*R*)

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N-Benzyl-(4*R*)-4-morpholymethyl-pyrrolidin-2-one

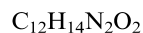
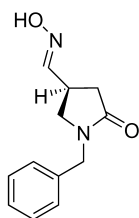
$[\alpha]_D^{25} = -4.0$ (*c* 2.76, $CHCl_3$)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*R*)

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N-Benzyl-(4*S*)-4-*E*-carbadolxime-pyrrolidin-2-one

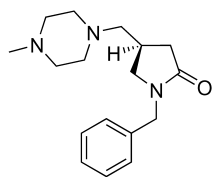
$[\alpha]_D^{25} = +14.0$ (*c* 1.00, $CHCl_3$), mixture of *E*:*Z* isomers (84:16)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*S*)

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Paulo R. R. Costa*

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$C_{17}H_{25}N_3O$

N-Benzyl-(4*R*)-4-(*N*-methylpiperazyl)pyrrolidin-2-one

$[\alpha]_D^{25} = -5.7$ (*c* 1.3, $CHCl_3$)

Source of chirality: D-(+)-mannitol

Absolute configuration: (4*R*)