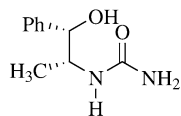


Stereochemistry abstracts

Alejandro Cruz,* Rosalinda Contreras, Itzia I. Padilla-Martínez and Minerva Juárez-Juárez

Tetrahedron: Asymmetry 17 (2006) 1499



$C_{10}H_{14}N_2O_2$

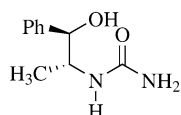
(1*S*,2*R*)-(+)-(2-Hydroxy-1-methyl-2-phenyl-ethyl)-urea

$[\alpha]_D^{24} = +3.0$ (*c* 1.68, EtOH)

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

Alejandro Cruz,* Rosalinda Contreras, Itzia I. Padilla-Martínez and Minerva Juárez-Juárez

Tetrahedron: Asymmetry 17 (2006) 1499



$C_{10}H_{14}N_2O_2$

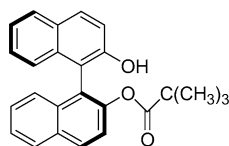
(1*R*,2*R*)-(-)-(2-Hydroxy-1-methyl-2-phenyl-ethyl)-urea

$[\alpha]_D^{24} = -6.1$ (*c* 1.64, EtOH)

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

Kavita Pathak, Achyut P. Bhatt, Sayed H. R. Abdi,* Rukhsana I. Kureshy, Noor-ul H. Khan, Irshad Ahmad and Raksh V. Jasra

Tetrahedron: Asymmetry 17 (2006) 1506



$C_{24}H_{22}O_3$

(*S*)-2-Hydroxy-2'-pivaloyloxy-1,1'-binaphthyl

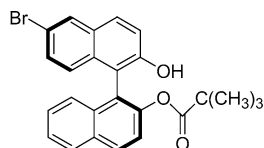
$[\alpha]_D^{25} = -54.5$ (*c* 0.5, THF)

Source of chirality: (*S*)-2,2'-dihydroxy-1,1'-binaphthyl

Absolute configuration: (*S*)

Kavita Pathak, Achyut P. Bhatt, Sayed H. R. Abdi,* Rukhsana I. Kureshy, Noor-ul H. Khan, Irshad Ahmad and Raksh V. Jasra

Tetrahedron: Asymmetry 17 (2006) 1506



$C_{24}H_{21}O_3Br$

(*S*)-6-Bromo-2-hydroxy-2'-pivaloyloxy-1,1'-binaphthyl

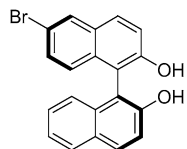
$[\alpha]_D^{25} = +6.0$ (*c* 0.52, THF)

Source of chirality: (*S*)-2,2'-dihydroxy-1,1'-binaphthyl

Absolute configuration: (*S*)

Kavita Pathak, Achyut P. Bhatt, Sayed H. R. Abdi,*
Rukhsana I. Kureshy, Noor-ul H. Khan, Irshad Ahmad and
Raksh V. Jasra

Tetrahedron: Asymmetry 17 (2006) 1506



$C_{20}H_{13}O_2Br$

(*S*)-6-Bromo-2,2'-dihydroxy-1,1'-binaphthyl

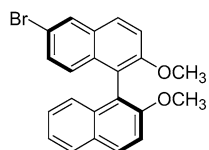
$[\alpha]_D^{25} = +6.35$ (*c* 0.55, THF)

Source of chirality: (*S*)-2,2'-dihydroxy-1,1'-binaphthyl

Absolute configuration: (*S*)

Kavita Pathak, Achyut P. Bhatt, Sayed H. R. Abdi,*
Rukhsana I. Kureshy, Noor-ul H. Khan, Irshad Ahmad and
Raksh V. Jasra

Tetrahedron: Asymmetry 17 (2006) 1506



$C_{22}O_{17}O_2Br$

(*S*)-6-Bromo-2,2'-dimethoxy-1,1'-binaphthyl

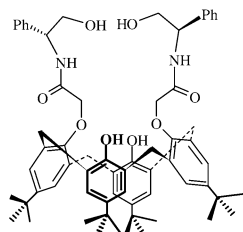
$[\alpha]_D^{25} = +48.1$ (*c* 0.5, $CHCl_3$)

Source of chirality: (*S*)-2,2'-dihydroxy-1,1'-binaphthyl

Absolute configuration: (*S*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and
Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



$C_{64}H_{78}N_2O_8$

5,11,17,23-Tetra-*tert*-butyl-25,27-bis[(*R,R*)-phenylglycinolyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

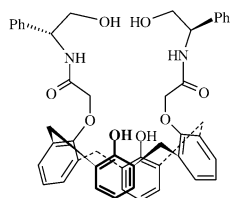
$[\alpha]_D^{20} = -8.7$ (*c* 0.3, $CHCl_3$)

Source of chirality: (*R*)-(-)-phenylglycinol

Absolute configuration: (*R,R*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and
Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



$C_{48}H_{46}N_2O_8$

25,27-bis[(*R,R*)-phenylglycinolyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

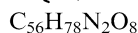
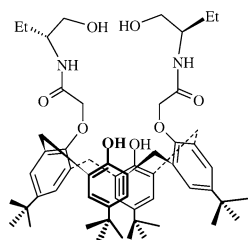
$[\alpha]_D^{20} = -30$ (*c* 0.5, $CHCl_3$)

Source of chirality: (*R*)-(-)-phenylglycinol

Absolute configuration: (*R,R*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



5,11,17,23-Tetra-*tert*-butyl-25,27-bis[(*R,R*)-2-amino-1-butanoyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

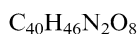
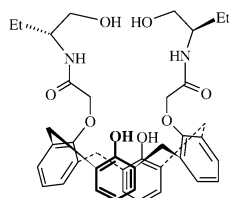
$$[\alpha]_D^{20} = -9.3 (c 0.4, CHCl_3)$$

Source of chirality: (*R*)-(-)-2-amino-1-butanol

Absolute configuration: (*R,R*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



25,27-bis[(*R,R*)-2-amino-1-butanoyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

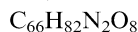
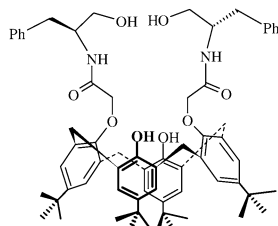
$$[\alpha]_D^{20} = -24 (c 0.5, CHCl_3)$$

Source of chirality: (*R*)-(-)-2-amino-1-butanol

Absolute configuration: (*R,R*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



5,11,17,23-Tetra-*tert*-butyl-25,27-bis[(*S,S*)-2-amino-3-phenyl-propanoyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

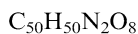
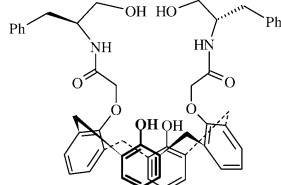
$$[\alpha]_D^{20} = -14.3 (c 0.4, CHCl_3)$$

Source of chirality: (*S*)-(-)-2-amino-3-phenyl-propanol

Absolute configuration: (*S,S*)

Erdal Kocabas, Aysegul Karakucuk, Abdulkadir Sirit and Mustafa Yilmaz*

Tetrahedron: Asymmetry 17 (2006) 1514



25,27-bis[(*S,S*)-2-amino-3-phenyl-propanoyl-carbonylmethoxy]-26,28-dihydroxy-calix[4]arene

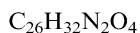
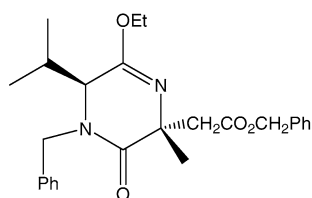
$$[\alpha]_D^{22} = -26.9 (c 0.2, CHCl_3)$$

Source of chirality: (*S*)-(-)-2-amino-3-phenyl-propanol

Absolute configuration: (*S,S*)

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

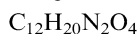
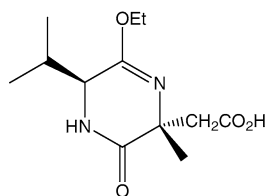


(2*R*,5*S*)-(4-Benzyl-6-ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid benzylester

$[\alpha]_D = -6.8$ (*c* 1.4, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

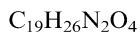
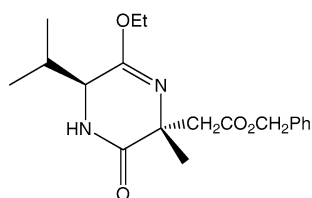


(2*R*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

$[\alpha]_D = -9.2$ (*c* 0.6, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

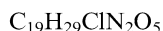
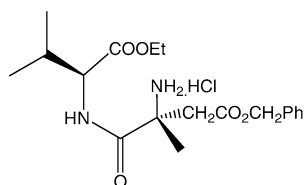


(2*R*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid benzyl ester

$[\alpha]_D = -12.8$ (*c* 0.6, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

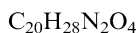
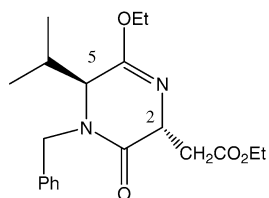


Dipeptide [(EtO)Val-(2*R*)-methyl-Asp(OBn)]·HCl

$[\alpha]_D = -9.6$ (*c* 0.7, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: *S*,*R*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



(2*R*,5*S*)-(4-Benzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid ethyl ester

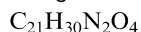
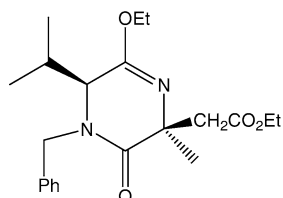
$[\alpha]_D = +31.2$ (*c* 0.6, $CHCl_3$)

Source of chirality: L-valine

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

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



(2*S*,5*S*)-(4-Benzyl-6-ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid ethyl ester

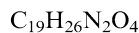
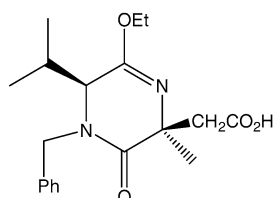
$[\alpha]_D = -3.6$ (*c* 0.5, $CHCl_3$)

Source of chirality: L-valine

Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



(2*S*,5*S*)-(4-Benzyl-6-ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

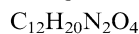
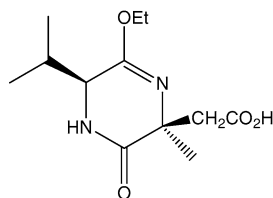
$[\alpha]_D = -1.0$ (*c* 0.8, $CHCl_3$)

Source of chirality: L-valine

Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



(2*S*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

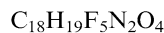
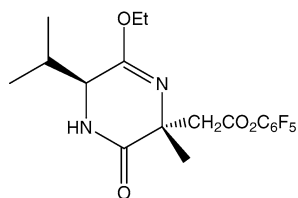
$[\alpha]_D = -4.3$ (*c* 0.3, $CHCl_3$)

Source of chirality: L-valine

Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

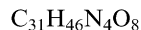
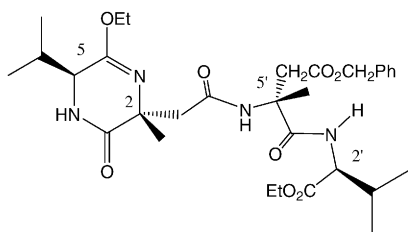


(2*R*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid pentafluorophenyl ester

$[\alpha]_D = -0.2$ (*c* 0.6, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

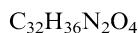
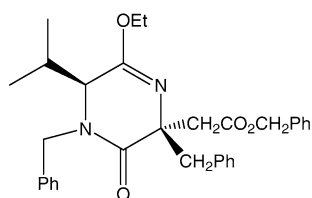


(2*R*,5*S*,2'*S*,5'*R*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-8'-[3',6'-diazia-4',7'-dioxo-2'-isopropyl-5'-methyl-5'-(acetic acid benzylester)]-ethyl octanoate

$[\alpha]_D = -4.3$ (*c* 0.8, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*,2'*S*,5'*R*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

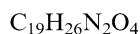
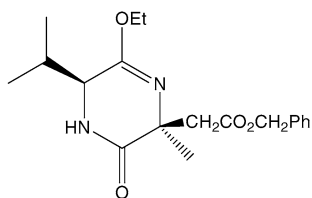


(2*R*,5*S*)-(2,4-Dibenzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid benzylester

$[\alpha]_D = -26.3$ (*c* 1, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521

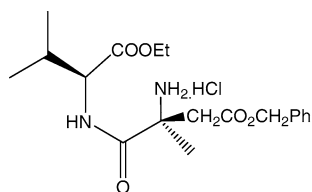


(2*S*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid benzyl ester

$[\alpha]_D = -5.2$ (*c* 0.6, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



$C_{19}H_{29}ClN_2O_5$

Dipeptide [(EtO)Val-(2S)-methyl-Asp(OBn)]·HCl

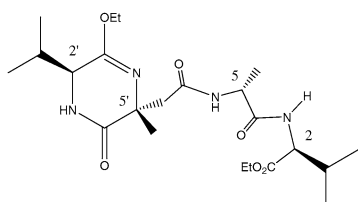
$[\alpha]_D = -4.5$ (c 0.4, CH₃OH)

Source of chirality: L-valine

Absolute configuration: S,S

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



$C_{22}H_{38}N_4O_6$

(2R,5R,2'S,5'R)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-8'-[3',6'-diazia-4',7'-dioxo-2-isopropyl-5'-methyl-ethyl-octanoate

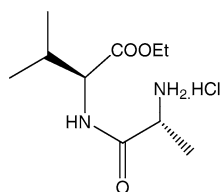
$[\alpha]_D = +32.2$ (c 0.9, CHCl₃)

Source of chirality: L-valine

Absolute configuration: 2S,5R,2'S,5'R

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



$C_{10}H_{21}ClN_2O_3$

Dipeptide [(EtO)Val-(2R)-Ala]·HCl

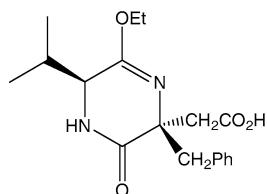
$[\alpha]_D = -9.4$ (c 1.5, CHCl₃)

Source of chirality: L-valine

Absolute configuration: S,R

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



$C_{18}H_{24}N_2O_4$

(2R,5S)-(2-Benzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

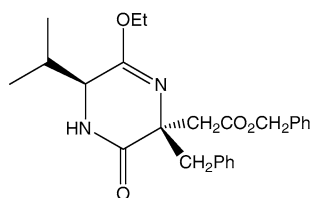
$[\alpha]_D = +3.2$ (c 1.4, CHCl₃)

Source of chirality: L-valine

Absolute configuration: 2R,5S

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



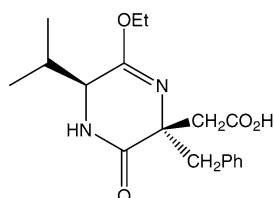
$C_{25}H_{30}N_2O_4$

(2*R*,5*S*)-(2-Benzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid benzyl ester

$[\alpha]_D = +2.7$ (*c* 0.7, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



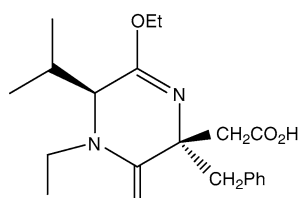
$C_{18}H_{24}N_2O_4$

(2*S*,5*S*)-(2-Benzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

$[\alpha]_D = -69$ (*c* 0.2, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



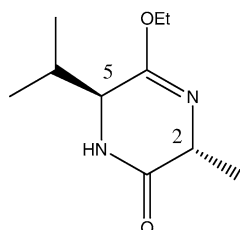
$C_{25}H_{30}N_2O_4$

(2*S*,5*S*)-(2,4-Dibenzyl-6-ethoxy-5-isopropyl-3-oxo-2,3,4,5-tetrahydro-pyrazin-2-yl)-acetic acid

$[\alpha]_D = -52.6$ (*c* 0.4, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*S*,5*S*

Daniele Balducci, Alessandro Grandi, Gianni Porzi* and Sergio Sandri*

Tetrahedron: Asymmetry 17 (2006) 1521



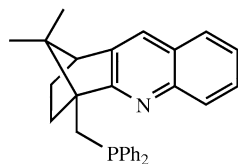
$C_{10}H_{18}N_2O_2$

(2*R*,5*S*)-(6-Ethoxy-5-isopropyl-2-methyl-3-oxo)-2,3,4,5-tetrahydropyrazine

$[\alpha]_D = +101.2$ (*c* 0.8, $CHCl_3$)
Source of chirality: L-valine
Absolute configuration: 2*R*,5*S*

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



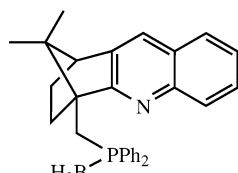
$C_{29}H_{28}NP$

4-Diphenylphosphanylmethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine

$[\alpha]_D^{25} = +29.4$ (c 0.48, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



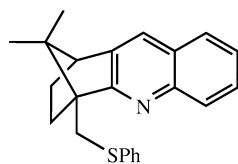
$C_{29}H_{31}BNP$

4-Diphenylphosphanylmethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine P-borane

$[\alpha]_D^{25} = -146.3$ (c 2.0, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



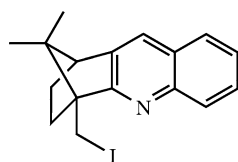
$C_{23}H_{23}NS$

4-Phenylthiomethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine

$[\alpha]_D^{25} = -7.2$ (c 0.67, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



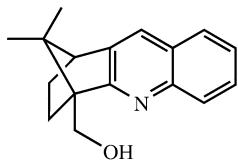
$C_{17}H_{18}IN$

4-Iodomethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine

$[\alpha]_D^{25} = -49.3$ (c 0.13, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



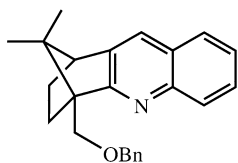
$C_{17}H_{19}NO$

4-Hydroxymethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine

$[\alpha]_D^{25} = +21.3$ (*c* 0.72, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



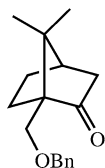
$C_{24}H_{25}NO$

4-Benzyloxymethyl-1,4-methano-11,11-dimethyl-1,2,3,4-tetrahydroacridine

$[\alpha]_D^{25} = +50.7$ (*c* 3.22, $CHCl_3$)
Absolute configuration: 1*S*,4*S*
Prepared from (+)-camphor

Giorgio Chelucci* and Salvatore Baldino

Tetrahedron: Asymmetry 17 (2006) 1529



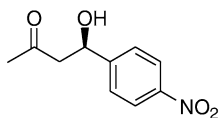
$C_{17}H_{22}O_2$

1-Benzyloxymethyl-7,7-dimethylbicyclo[2.2.1]heptan-2-one

$[\alpha]_D^{25} = +38.0$ (*c* 1.77, $CHCl_3$)
Absolute configuration: 1*R*,4*R*
Prepared from (+)-camphor

Qing Gu, Xiao-Fei Wang, Lei Wang, Xin-Yan Wu* and Qi-Lin Zhou

Tetrahedron: Asymmetry 17 (2006) 1537



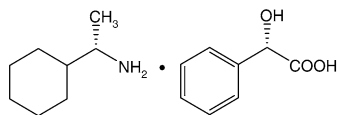
$C_{10}H_{11}NO_4$

(4*R*)-4-Hydroxy-4-(4-nitrophenyl)-2-butanone

Ee = 65%
 $[\alpha]_D^{20} = +35.0$ (*c* 0.2, $CHCl_3$)
Source of chirality: asymmetric aldol reaction
Absolute configuration: 4*R*

Kenichi Sakai,* Masami Yokoyama, Rumiko Sakurai and Noriaki Hirayama*

Tetrahedron: Asymmetry 17 (2006) 1541



$C_{16}H_{25}NO_3$

(*S*)-1-Cyclohexylethylamine:(*S*)-mandelic acid

$[\alpha]_D^{20} = +49.3$ (*c* 1.02, MeOH)

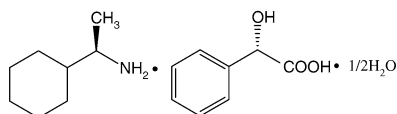
De 98.5%

Source of chirality: resolution

Absolute configuration: *S,S*

Kenichi Sakai,* Masami Yokoyama, Rumiko Sakurai and Noriaki Hirayama*

Tetrahedron: Asymmetry 17 (2006) 1541



$C_{16}H_{25}NO_3 \cdot 1/2H_2O$

(*R*)-1-Cyclohexylethylamine:(*S*)-mandelic acid:1/2H₂O

$[\alpha]_D^{20} = +53.3$ (*c* 1.02, MeOH)

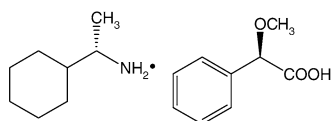
De 99.5%

Source of chirality: resolution

Absolute configuration: *R,S*

Kenichi Sakai,* Masami Yokoyama, Rumiko Sakurai and Noriaki Hirayama*

Tetrahedron: Asymmetry 17 (2006) 1541



$C_{17}H_{27}NO_3$

(*S*)-1-Cyclohexylethylamine:(*R*)-2-methoxy-2-phenylacetic acid

$[\alpha]_D^{20} = -56.6$ (*c* 1.01, MeOH)

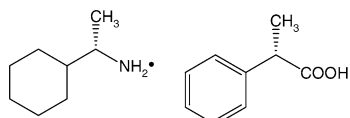
De 99.4%

Source of chirality: resolution

Absolute configuration: *S,R*

Kenichi Sakai,* Masami Yokoyama, Rumiko Sakurai and Noriaki Hirayama*

Tetrahedron: Asymmetry 17 (2006) 1541



$C_{17}H_{27}NO_2$

(*S*)-1-Cyclohexylethylamine:(*S*)-2-phenylpropionic acid

$[\alpha]_D^{20} = +1.8$ (*c* 1.01, MeOH)

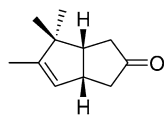
De 99.7%

Source of chirality: resolution

Absolute configuration: *S,S*

Adusumilli Srikrishna,* B. Beeraiah and Gedo Satyanarayana

Tetrahedron: Asymmetry 17 (2006) 1544



$C_{11}H_{16}O$

(1*R*,5*R*)-7,8,8-Trimethylbicyclo[3.3.0]oct-6-en-3-one

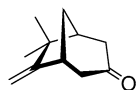
$[\alpha]_D^{25} = -42.5$ (*c* 2.0, $CHCl_3$)

Source of chirality: α -pinene

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

Adusumilli Srikrishna,* B. Beeraiah and Gedo Satyanarayana

Tetrahedron: Asymmetry 17 (2006) 1544



$C_{11}H_{16}O$

(1*S*,5*R*)-7,7-Dimethyl-6-methylenebicyclo[3.2.1]octan-3-one

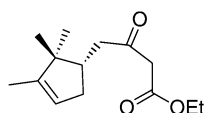
$[\alpha]_D^{26} = -30.0$ (*c* 3.6, $CHCl_3$)

Source of chirality: α -pinene

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

Adusumilli Srikrishna,* B. Beeraiah and Gedo Satyanarayana

Tetrahedron: Asymmetry 17 (2006) 1544



$C_{14}H_{22}O_3$

Ethyl 4-[(1*S*)-2,2,3-trimethylcyclopent-3-enyl]-3-oxobutanoate

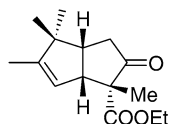
$[\alpha]_D^{25} = -1.7$ (*c* 14, $CHCl_3$)

Source of chirality: α -pinene

Absolute configuration: (1'*S*)

Adusumilli Srikrishna,* B. Beeraiah and Gedo Satyanarayana

Tetrahedron: Asymmetry 17 (2006) 1544



$C_{15}H_{22}O_3$

Ethyl (1*S*,2*R*,5*R*)-2,6,6,7-tetramethyl-3-oxobicyclo[3.3.0]cyclopent-7-ene-2-carboxylate

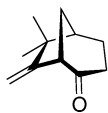
$[\alpha]_D^{26} = -31.7$ (*c* 0.6, $CHCl_3$)

Source of chirality: α -pinene

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

Adusumilli Srikrishna,* B. Beeraiah and Gedo Satyanarayana

Tetrahedron: Asymmetry 17 (2006) 1544



C₁₁H₁₆O

(1*S*,5*R*)-6,6-Dimethyl-7-methylenebicyclo[3.2.1]octan-2-one

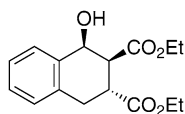
$[\alpha]_D^{26} = -34.0$ (*c* 4.0, CHCl₃)

Source of chirality: α -pinene

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



C₁₆H₂₀O₅

Diethyl (1*S*,2*S*,3*R*)-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 83%

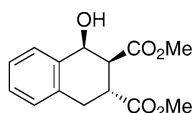
$[\alpha]_D^{25} = -121$ (*c* 0.27, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



C₁₄H₁₆O₅

Dimethyl (1*S*,2*S*,3*R*)-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 75%

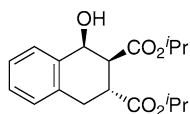
$[\alpha]_D^{25} = -89$ (*c* 0.82, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



C₁₈H₂₄O₅

Diisopropyl (1*S*,2*S*,3*R*)-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 72%

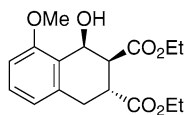
$[\alpha]_D^{25} = -82$ (*c* 0.75, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



$C_{17}H_{22}O_6$

Diethyl (1*S*,2*S*,3*R*)-1-hydroxy-8-methoxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 65%

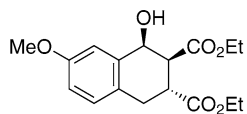
$[\alpha]_D^{25} = -55$ (c 0.50, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



$C_{17}H_{22}O_6$

Diethyl (1*S*,2*S*,3*R*)-1-hydroxy-7-methoxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 80%

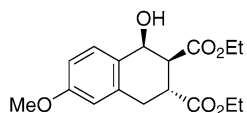
$[\alpha]_D^{25} = -94$ (c 0.77, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



$C_{17}H_{22}O_6$

Diethyl (1*S*,2*S*,3*R*)-1-hydroxy-6-methoxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 79%

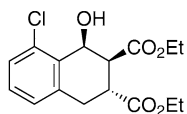
$[\alpha]_D^{25} = -52$ (c 0.28, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



$C_{16}H_{19}O_5Cl$

Diethyl (1*S*,2*S*,3*R*)-8-chloro-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 54%

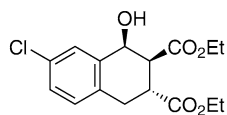
$[\alpha]_D^{25} = -56$ (c 0.54, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



C₁₆H₁₉O₅Cl

Diethyl (1*S*,2*S*,3*R*)-7-chloro-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 68%

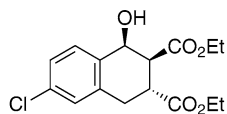
[α]_D²⁵ = -57 (c 0.78, EtOH)

Source of chirality: asymmetric synthesis

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

Motoki Takinami, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 1554



C₁₆H₁₉O₅Cl

Diethyl (1*S*,2*S*,3*R*)-6-chloro-1-hydroxy-1,2,3,4-tetrahydronaphthalene-2,3-dicarboxylate

Ee = 66%

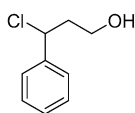
[α]_D²⁵ = -75 (c 0.51, EtOH)

Source of chirality: asymmetric synthesis

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

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₉H₁₁ClO

(+)-3-Chloro-3-phenylpropan-1-ol

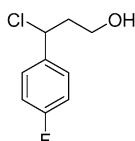
Ee = 78%

[α]_D²⁵ = +32.3 (c 1.00, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₉H₁₀ClFO

(+)-3-Chloro-3-(4-fluorophenyl)propan-1-ol

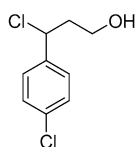
Ee = 21%

[α]_D²⁵ = +15.4 (c 1.90, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_9H_{10}Cl_2O$

(+)-3-Chloro-3-(4-chlorophenyl)propan-1-ol

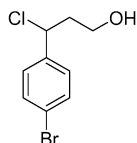
Ee = 21%

$[\alpha]_D^{25} = +10.0$ (c 1.80, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_9H_{10}BrClO$

(+)-3-Chloro-3-(4-bromophenyl)propan-1-ol

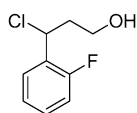
Ee = 23%

$[\alpha]_D^{25} = +7.6$ (c 1.40, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_9H_{10}ClFO$

(+)-3-Chloro-3-(2-fluorophenyl)propan-1-ol

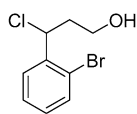
Ee = 25%

$[\alpha]_D^{25} = +6.7$ (c 1.40, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_9H_{10}BrClO$

(+)-3-Chloro-3-(2-bromophenyl)propan-1-ol

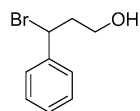
Ee = 43%

$[\alpha]_D^{25} = +4.4$ (c 1.00, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₉H₁₁BrO

(+)-3-Bromo-3-phenylpropan-1-ol

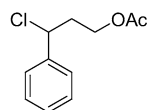
Ee = 21%

[α]_D²⁵ = +8.8 (c 0.99, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₁₁H₁₃ClO₂

(-)-3-Chloro-3-phenylpropyl acetate

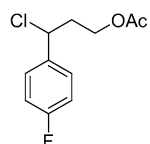
Ee = 33%

[α]_D²⁵ = -19.9 (c 1.20, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₁₁H₁₂ClFO₂

(-)-3-Chloro-3-(4-fluorophenyl)propyl acetate

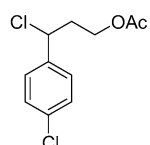
Ee = 32%

[α]_D²⁵ = -16.3 (c 1.40, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



C₁₁H₁₂Cl₂O₂

(-)-3-Chloro-3-(4-chlorophenyl)propyl acetate

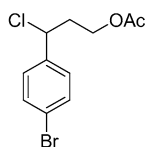
Ee = 37%

[α]_D²⁵ = -19.7 (c 1.20, CHCl₃)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_{11}H_{12}BrClO_2$

(-)-3-Chloro-3-(4-bromophenyl)propyl acetate

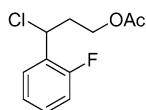
Ee = 30%

$[\alpha]_D^{25} = -11.2$ (c 0.85, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_{11}H_{12}ClFO_2$

(-)-3-Chloro-3-(2-fluorophenyl)propyl acetate

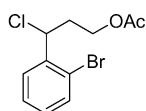
Ee = 24%

$[\alpha]_D^{25} = -18.0$ (c 1.70, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_{11}H_{12}BrClO_2$

(-)-3-Chloro-3-(2-bromophenyl)propyl acetate

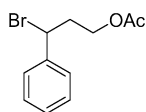
Ee = 36%

$[\alpha]_D^{25} = -11.8$ (c 1.40, $CHCl_3$)

Source of chirality: enzymatic resolution

Alper Isleyen, Cihangir Tanyeli* and Özdemir Dogan*

Tetrahedron: Asymmetry 17 (2006) 1561



$C_{11}H_{13}BrO_2$

(-)-3-Bromo-3-phenylpropyl acetate

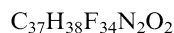
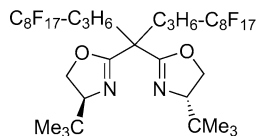
Ee = 38%

$[\alpha]_D^{25} = -28.7$ (c 0.84, $CHCl_3$)

Source of chirality: enzymatic resolution

Jerome Bayardon, Orsolya Holczknecht, Gianluca Pozzi
and Denis Sinou*

Tetrahedron: Asymmetry 17 (2006) 1568



12,12-Bis[(4*S*)-4-*tert*-butyl-1,3-oxazolin-2-yl][(9*H*,9*H*,10*H*,10*H*,11*H*,11*H*,13*H*,13*H*,14*H*,14*H*,15*H*,15*H*)perfluorotricosane

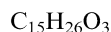
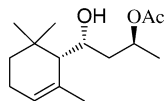
$$[\alpha]_D^{25} = -24 \text{ (} c \text{ 1, CHCl}_3\text{)}$$

Source of chirality: commercially available

Absolute configuration: *S,S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



(-)-(6*S*,7*R*,9*S*)-7-Hydroxy- α -dihydroionol acetate

Ee = 99% (chiral GC analysis)

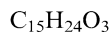
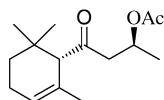
$$[\alpha]_D^{20} = -122.8 \text{ (} c \text{ 2, CHCl}_3\text{)}$$

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*,7*R*,9*S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



(-)-(6*S*,9*S*)-7-Oxy- α -dihydroionol acetate

Ee = 99% (chiral GC analysis)

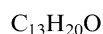
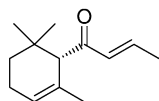
$$[\alpha]_D^{20} = -378.4 \text{ (} c \text{ 2, CHCl}_3\text{)}$$

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*,9*S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



(-)- α -Damascone

Ee = 99% (chiral GC analysis)

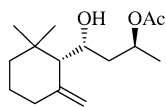
$$[\alpha]_D^{20} = -520.5 \text{ (} c \text{ 2, CHCl}_3\text{)}$$

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



C₁₅H₂₆O₃

(+)-(6*S*,7*R*,9*S*)-7-Hydroxy- γ -dihydroionol acetate

Ee = 99% (chiral GC analysis)

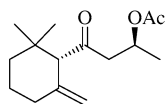
$[\alpha]_D^{20} = +25.8$ (*c* 2, CHCl₃)

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*,7*R*,9*S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



C₁₅H₂₄O₃

(+)-(6*S*,9*S*)-7-Oxy- γ -dihydroionol acetate

Ee = 99% (chiral GC analysis)

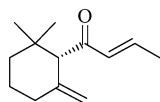
$[\alpha]_D^{20} = +287.4$ (*c* 2, CHCl₃)

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*,9*S*

Stefano Serra* and Claudio Fuganti

Tetrahedron: Asymmetry 17 (2006) 1573



C₁₃H₂₀O

(+)- γ -Damascone

Ee = 99% (chiral GC analysis)

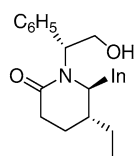
$[\alpha]_D^{20} = +272.3$ (*c* 2, CHCl₃)

Source of chirality: lipase PS resolution

Absolute configuration: 6*S*

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



C₂₃H₂₆N₂O₂

(5*R*,6*R*)-5-Ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-6-(3-indolyl)-2-piperidone

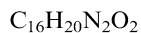
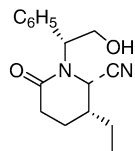
$[\alpha]_D^{22} = -34.8$ (*c* 1.03, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



(5*R*,6*S*)-6-Cyano-5-ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-2-piperidone

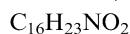
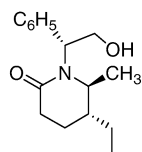
$$[\alpha]_D^{22} = -16.0 (c 0.18, \text{MeOH})$$

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



(5*R*,6*S*)-5-Ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-6-methyl-2-piperidone

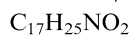
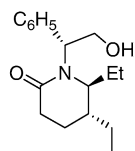
$$[\alpha]_D^{22} = -2.9 (c 0.48, \text{MeOH})$$

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



(5*R*,6*S*)-5,5-Diethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-2-piperidone

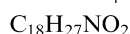
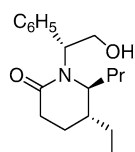
$$[\alpha]_D^{22} = -48.9 (c 0.27, \text{MeOH})$$

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



(5*R*,6*S*)-5-Ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-6-propyl-2-piperidone

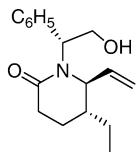
$$[\alpha]_D^{22} = -34.8 (c 1.03, \text{MeOH})$$

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



$C_{17}H_{23}NO_2$

(5*R*,6*S*)-5-Ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-6-vinyl-2-piperidone

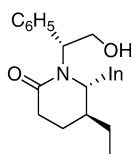
$[\alpha]_D^{22} = -142.2$ (*c* 0.18, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



$C_{23}H_{26}N_2O_2$

(5*S*,6*S*)-5-Ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-6-(3-indolyl)-2-piperidone

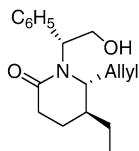
$[\alpha]_D^{22} = -5.4$ (*c* 0.11, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



$C_{18}H_{25}NO_2$

(5*S*,6*R*)-6-Allyl-5-ethyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-2-piperidone

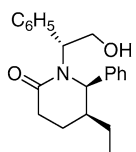
$[\alpha]_D^{22} = -19.6$ (*c* 10.9, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



$C_{21}H_{26}NO_2$

(5*S*,6*R*)-5-Ethyl-6-phenyl-1-[(1*R*)-2-hydroxy-1-phenylethyl]-2-piperidone

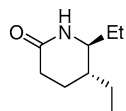
$[\alpha]_D^{22} = -126.1$ (*c* 0.23, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



C₉H₁₇NO

(5*R*,6*S*)-5,6-Diethyl-2-piperidone

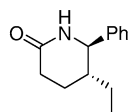
$[\alpha]_D^{22} = +5.0$ (*c* 0.08, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



C₁₃H₁₇NO

(5*R*,6*R*)-5-Ethyl-6-phenyl-2-piperidone

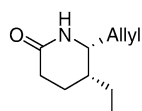
$[\alpha]_D^{22} = -10.4$ (*c* 0.27, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



C₁₀H₁₇NO

(5*R*,6*R*)-6-Allyl-5-ethyl-2-piperidone

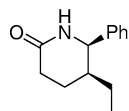
$[\alpha]_D^{22} = +48.4$ (*c* 1.19, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Mercedes Amat,* Carmen Escolano, Arantxa Gómez-Esqué,
Oscar Lozano, Núria Llor, Rosa Griera, Elies Molins and Joan Bosch

Tetrahedron: Asymmetry 17 (2006) 1581



C₁₃H₁₇NO

(5*S*,6*R*)-5-Ethyl-6-phenyl-2-piperidone

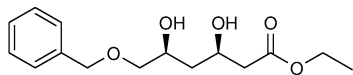
$[\alpha]_D^{22} = -75.6$ (*c* 0.53, MeOH)

Source of chirality: (*R*)-phenylglycinol

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

Zhiwei Guo, Yijun Chen, Animesh Goswami, Ronald L. Hanson and Ramesh N. Patel*

Tetrahedron: Asymmetry 17 (2006) 1589



$C_{15}H_{22}O_5$

Ethyl *syn*-(3*R*,5*S*)-dihydroxy-6-benzyloxyhexanoate

Ee = 99%

De = 99%

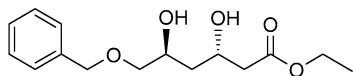
$[\alpha]_D = -12.5$ (*c* 1.23, $CHCl_3$)

Source of chirality: microbial reduction

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

Zhiwei Guo, Yijun Chen, Animesh Goswami, Ronald L. Hanson and Ramesh N. Patel*

Tetrahedron: Asymmetry 17 (2006) 1589



$C_{15}H_{22}O_5$

Ethyl *anti*-(3*S*,5*S*)-dihydroxy-6-benzyloxyhexanoate

Ee = 97%

De = 99%

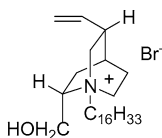
$[\alpha]_D = +7.2$ (*c* 1.50, $CHCl_3$)

Source of chirality: microbial reduction

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

Francesca Ceccacci, Oscar Cruciani, Marco Diociauti, Giuseppe Formisano, Luciano Galantini, Wolfgang Lindner, Giovanna Mancini* and Claudio Villani

Tetrahedron: Asymmetry 17 (2006) 1603



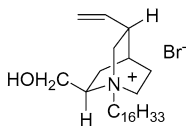
$C_{26}H_{50}BrNO$

(1*S*,2*S*,4*S*,5*R*)-(+)-1-Hexadecyl-5-vinyl-2-quinuclidinium-methanol bromide

$[\alpha]_D^{25} = 17.2$ (*c* 4.7, MeOH)

Francesca Ceccacci, Oscar Cruciani, Marco Diociauti, Giuseppe Formisano, Luciano Galantini, Wolfgang Lindner, Giovanna Mancini* and Claudio Villani

Tetrahedron: Asymmetry 17 (2006) 1603



$C_{26}H_{50}BrNO$

(1*S*,2*R*,4*S*,5*R*)-(+)-1-Hexadecyl-5-vinyl-2-quinuclidinium-methanol bromide

$[\alpha]_D^{25} = 77.9$ (*c* 2.2, MeOH)