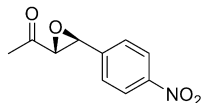


Stereochemistry abstracts

Gabriela Guillena, María del Carmen Hita and Carmen Nájera*

Tetrahedron: Asymmetry 18 (2007) 1272



$C_{10}H_9NO_4$

trans-(3*R*,4*S*)-3,4-Epoxy-4-(4-nitrophenyl)butan-2-one

Ee = 83% [HPLC: *Chiralpak AD* column, hexane/*i*PrOH: 98/2

1.25 mL/min; ret. times, 43.9 (major), 53.4 (minor) min]

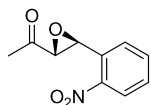
$[\alpha]_D^{20} = -15$ (c 1.14, $CHCl_3$)

Source of chirality: asymmetric organocatalysis

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

Gabriela Guillena, María del Carmen Hita and Carmen Nájera*

Tetrahedron: Asymmetry 18 (2007) 1272



$C_{10}H_9NO_4$

trans-(3*R*,4*S*)-3,4-Epoxy-4-(2-nitrophenyl)butan-2-one

Ee = 96% [HPLC: *Chiralpak AD* column, hexane/*i*PrOH: 98/2

1.25 mL/min; ret. times, 19.7 (major), 36.0 (minor) min]

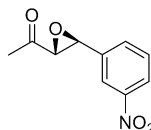
$[\alpha]_D^{20} = -40$ (c 1.2, $CHCl_3$)

Source of chirality: asymmetric organocatalysis

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

Gabriela Guillena, María del Carmen Hita and Carmen Nájera*

Tetrahedron: Asymmetry 18 (2007) 1272



$C_{10}H_9NO_4$

trans-(3*R*,4*S*)-3,4-Epoxy-4-(3-nitrophenyl)butan-2-one

Ee = 97% [HPLC: *Chiralpak AD* column, hexane/*i*PrOH: 98/2

1.25 mL/min; ret. times, 25.4 (major), 32.6 (minor) min]

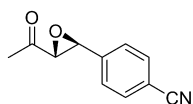
$[\alpha]_D^{20} = -17$ (c 1.4, $CHCl_3$)

Source of chirality: asymmetric organocatalysis

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

Gabriela Guillena, María del Carmen Hita and Carmen Nájera*

Tetrahedron: Asymmetry 18 (2007) 1272



$C_{11}H_9NO_2$

trans-(3*R*,4*S*)-3,4-Epoxy-4-(4-cyanophenyl)butan-2-one

Ee = 93% [HPLC: *Chiralpak AD* column, hexane/*i*PrOH: 98/2

1.25 mL/min; ret. times, 32.3 (major), 43.2 (minor) min]

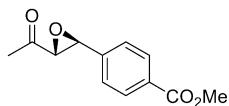
$[\alpha]_D^{20} = -50$ (c 0.84, $CHCl_3$)

Source of chirality: asymmetric organocatalysis

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

Gabriela Guillena, María del Carmen Hita and Carmen Nájera*

Tetrahedron: Asymmetry 18 (2007) 1272



$C_{12}H_{12}O_4$

trans-(3*R*,4*S*)-Epoxy-4-{4-(methoxycarbonyl)phenyl}butan-2-one

Ee = 87% [HPLC: *Chiralpak* AD column, hexane/*i*PrOH: 98/2

1.25 mL/min; ret. times, 9.0 (major), 12.0 (minor) min]

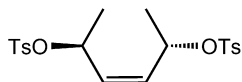
$[\alpha]_D^{20} = -63$ (*c* 0.5, $CHCl_3$)

Source of chirality: asymmetric organocatalysis

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

Edoardo Cesarotti,* Isabella Rimoldi, Paola Spalluto and Francesco Demartin

Tetrahedron: Asymmetry 18 (2007) 1278



$C_{20}H_{24}O_6S_2$

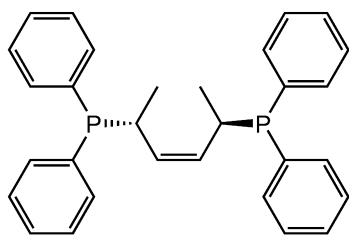
(2*S*,5*S*,*Z*)-Hex-3-en-2-yl 2,5-(4-methylbenzenesulfonate)

$[\alpha]_D^{25} = +35.38$ (*c* 2.1×10^{-3} M, C_3H_6O)

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

Edoardo Cesarotti,* Isabella Rimoldi, Paola Spalluto and Francesco Demartin

Tetrahedron: Asymmetry 18 (2007) 1278



$C_{30}H_{30}P_2$

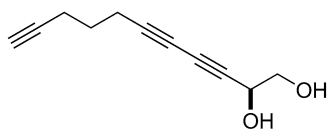
1-(((2*R*,5*R*,*Z*)-5-(diphenylphosphino)hex-3-en-2-yl)(phenyl)phosphino)benzene

$[\alpha]_D^{25} = -50.3$ (*c* 0.001 M, C_3H_6O)

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

Benjamin W. Gung,* Derek T. Craft and Jessica Truelove

Tetrahedron: Asymmetry 18 (2007) 1284



$C_{11}H_{12}O_2$

(*S*)-Undeca-3,5,10-triyne-1,2-diol

Ee = >98%

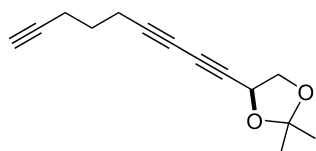
$[\alpha]_D^{23} = +41.4$ (*c* 0.06, $CHCl_3$)

Source of chirality: D-mannitol

Absolute configuration: (*S*)

Benjamin W. Gung,* Derek T. Craft and Jessica Truelove

Tetrahedron: Asymmetry 18 (2007) 1284



$C_{14}H_{16}O_2$

(S)-2,2-Dimethyl-4-nona-1,3,8-triynyl-[1,3]dioxolane

Ee = >98%

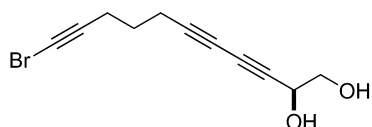
$[\alpha]_D^{23} = +58.3$ (c 0.04, $CHCl_3$)

Source of chirality: D-mannitol

Absolute configuration: (S)

Benjamin W. Gung,* Derek T. Craft and Jessica Truelove

Tetrahedron: Asymmetry 18 (2007) 1284



$C_{11}H_{11}O_2Br$

(S)-11-Bromo-undeca-3,5,10-triynyl-1,2-diol

Ee = >98%

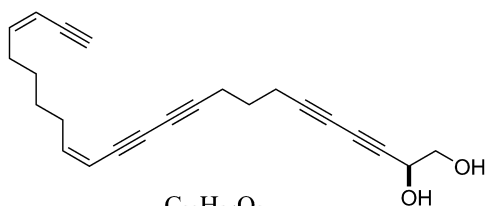
$[\alpha]_D^{23} = +24$ (c 0.009, $CHCl_3$)

Source of chirality: D-mannitol

Absolute configuration: (S)

Benjamin W. Gung,* Derek T. Craft and Jessica Truelove

Tetrahedron: Asymmetry 18 (2007) 1284



$C_{23}H_{24}O_2$

(S)-(+)-Siphonodiol

Ee = >98%

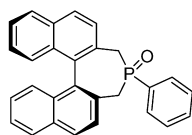
$[\alpha]_D^{23} = +6.5$ (c 0.004, $CHCl_3$)

Source of chirality: D-mannitol

Absolute configuration: (S)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik,
Anke Spannberg, Fabrizio Marras, Serafino Gladiali and
Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



$C_{28}H_{21}OP$

(S)-4-Phenyl-4,5-dihydro-3H-dinaphtho[2,1-c:1',2'-e]phosphine oxide

Ee = >98%

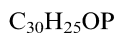
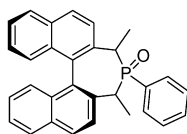
$[\alpha]_D^{22} = +79$ (c 0.46, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S,S,S_a*)-3,5-Dimethyl-4-phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*:1',2'-*e*]phosphepine oxide

Ee = >98%

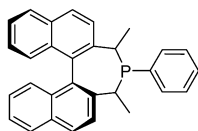
$[\alpha]^{22} = +93.5$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S,S,S_a*)-3,5-Dimethyl-4-phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*:1',2'-*e*]phosphepine

Ee = >98%

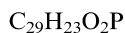
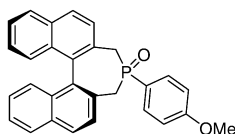
$[\alpha]^{25} = +87.5$ (*c* 0.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S*)-4-(4-Methoxy)phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*:1',2'-*e*]phosphepine oxide

Ee = >98%

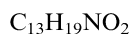
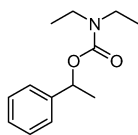
$[\alpha]^{22} = -293$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S*)-1-Phenylethyl *N,N*-diethylcarbamate

Ee = 96%

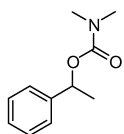
$[\alpha]^{23} = -146.1$ (*c* 0.5, $CH_2Cl_2/MeOH$ 1:1)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S*)-1-Phenylethyl *N,N*-dimethylcarbamate

Ee = 75%

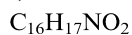
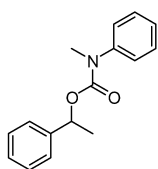
$[\alpha]^{23} = -2.9$ (*c* 0.3, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



1-Phenylethyl *N*-methyl *N*-phenylcarbamate

Ee = 65%

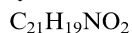
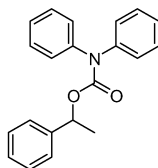
$[\alpha]^{22} = +19.9$ (*c* 0.26, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



1-Phenylethyl *N,N*-diphenylcarbamate

Ee = 76%

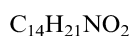
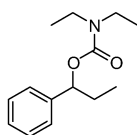
$[\alpha]^{21} = -16.8$ (*c* 0.33, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



(*S*)-1-Phenylpropyl *N,N*-diethylcarbamate

Ee = 50%

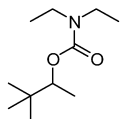
$[\alpha]^{23} = -143.7$ (*c* 0.5, $CH_2Cl_2/MeOH$ 1:1)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Stephan Enthaler, Giulia Erre, Kathrin Junge, Dirk Michalik, Anke Spannenberg, Fabrizio Marras, Serafino Gladiali and Matthias Beller*

Tetrahedron: Asymmetry 18 (2007) 1288



$C_{11}H_{23}NO_2$

(+)-3,3-Dimethylbutan-2-yl diethylcarbamate

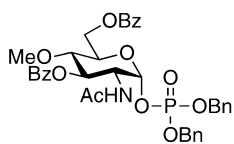
Ee = 67%

$[\alpha]_D^{22} = +135$ (c 0.04, $CHCl_3/MeOH$)

Source of chirality: asymmetric synthesis

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



$C_{37}H_{38}NO_{11}P$

Dibenzyolphosphate-2-acetamido-3,6-di-O-benzoyl-2-deoxy-4-O-methyl- α -D-glucopyranoside

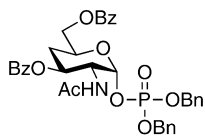
Ee = 100%

$[\alpha]_D^{23} = +46.3$ (c 1.0, $CHCl_3$)

Source of chirality: *N*-acetyl-D-glucosamine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



$C_{36}H_{36}NO_{10}P$

Dibenzyolphosphate-2-acetamido-3,6-di-O-benzoyl-2,4-dideoxy- α -D-xyllo-hexopyranoside

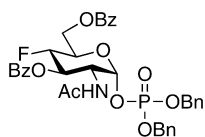
Ee = 100%

$[\alpha]_D^{23} = +58.5$ (c 1.0, $CHCl_3$)

Source of chirality: *N*-acetyl-D-glucosamine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



$C_{36}H_{35}FNO_{10}P$

Dibenzyolphosphate-2-acetamido-3,6-di-O-benzoyl-2,4-dideoxy-4-fluoro- α -D-glucopyranoside

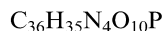
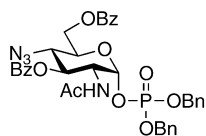
Ee = 100%

$[\alpha]_D^{23} = +59.9$ (c 1.0, $CHCl_3$)

Source of chirality: *N*-acetyl-D-glucosamine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



Dibenzyldiphosphate-2-acetamido-3,6-di-O-benzoyl-2,4-dideoxy-4-azido- α -D-glucopyranoside

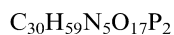
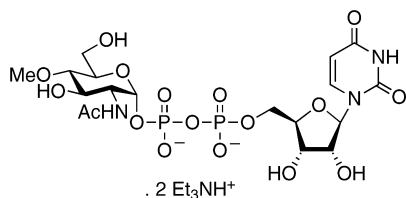
Ee = 100%

$[\alpha]_D^{20} = +90.2$ (c 0.5, MeOH)

Source of chirality: *N*-acetyl-D-glucosamine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



Uridinediphosphoryl-2-acetamido-2,4-dideoxy-4-O-methyl- α -D-glucopyranoside, ditriethylammonium salt

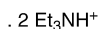
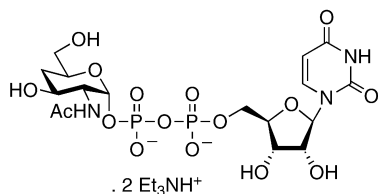
Ee = 100%

$[\alpha]_D^{18} = +40.8$ (c 1.0, MeOH)

Source of chirality: *N*-acetyl-D-glucosamine, D-uridine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



Uridinediphosphoryl-2-acetamido-2,4-dideoxy- α -D-xylo-hexopyranoside, ditriethylammonium salt

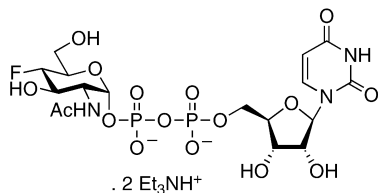
Ee = 100%

$[\alpha]_D^{18} = +40.2$ (c 1.0, MeOH)

Source of chirality: *N*-acetyl-D-glucosamine, D-uridine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



Uridinediphosphoryl-2-acetamido-2,4-dideoxy-4-fluoro- α -D-glucopyranoside, ditriethylammonium salt

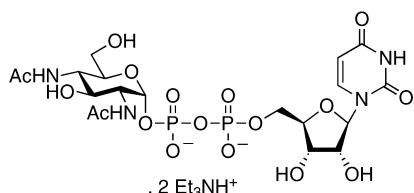
Ee = 100%

$[\alpha]_D^{18} = +45.0$ (c 0.1, MeOH)

Source of chirality: *N*-acetyl-D-glucosamine, D-uridine

Thierry Muller, Ramona Danac, Lucy Ball, Sarah J. Gurr and Antony J. Fairbanks*

Tetrahedron: Asymmetry 18 (2007) 1299



Ee = 100%

$[\alpha]_{\text{D}}^{18} = +41.6$ (c 0.5, MeOH)

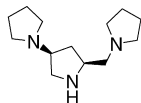
Source of chirality: *N*-acetyl-D-glucosamine, D-uridine

$\text{C}_{31}\text{H}_{60}\text{N}_6\text{O}_{17}\text{P}_2$

Uridinediphosphoryl-2,4-diacetamido-2,4-dideoxy- α -D-glucopyranoside, ditriethylammonium salt

Haibin Chen, Yu Wang, Siyu Wei and Jian Sun*

Tetrahedron: Asymmetry 18 (2007) 1308



$\text{C}_{13}\text{H}_{25}\text{N}_3$

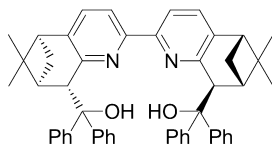
(2*S*,4*S*)-2-Pyrrolidin-1-ylmethyl-4-pyrrolidin-1-yl-pyrrolidine

Ee = 100%

$[\alpha]_{\text{D}}^{20} = +5.0$ (c 0.70, CH_2Cl_2)

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



$\text{C}_{50}\text{H}_{48}\text{N}_2\text{O}_2$

[8'-(Hydroxy-diphenyl-methyl)-10,10,10',10'-tetramethyl-5,5']bi[6-aza-tricyclo[7.1.1.0^{2,7}]]undecyl]-2(7),3,5,2',4',6'-hexaen-8-yl]-diphenyl-methanol

Ee = 97%

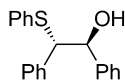
$[\alpha]_{\text{D}}^{16} = -427.5$ (c 0.32, CH_2Cl_2)

Source of chirality: (1*R*)-(+)- α -pinene

Absolute configuration: (1*S*,1'*S*,8*R*,8'*R*,9*S*,9'*S*)

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



$\text{C}_{20}\text{H}_{18}\text{OS}$

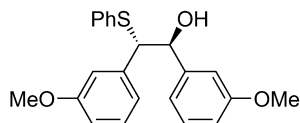
1,2-Diphenyl-2-phenylsulfanyl-ethanol

$[\alpha]_{\text{D}}^{21} = +58.4$ (c 1.1, CH_3Cl)

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

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



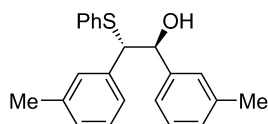
$[\alpha]_D^{21} = +45.6$ (*c* 1.1, CH₃Cl)
Absolute configuration: (1*S*,2*S*)

C₂₂H₂₂O₃S

1,2-Bis-(3-methoxy-phenyl)-2-phenylsulfanyl-ethanol

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



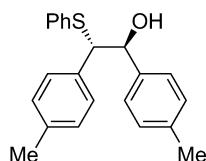
$[\alpha]_D^{21} = +57.7$ (*c* 0.3, CH₃Cl)
Absolute configuration: (1*S*,2*S*)

C₂₂H₂₂OS

2-Phenylsulfanyl-1,2-di-*m*-toyl-ethanol

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



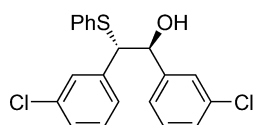
$[\alpha]_D^{21} = +35.9$ (*c* 1.1, CH₃Cl)
Absolute configuration: (1*S*,2*S*)

C₂₂H₂₂OS

2-Phenylsulfanyl-1,2-di-*p*-toyl-ethanol

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



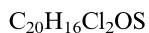
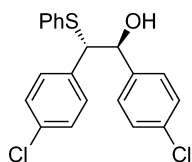
$[\alpha]_D^{21} = +43.6$ (*c* 1.5, CH₃Cl)
Absolute configuration: (1*S*,2*S*)

C₂₀H₁₆Cl₂OS

1,2-Bis-(3-chloro-phenyl)-2-phenylsulfanyl-ethanol

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



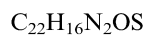
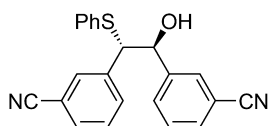
1,2-Bis-(4-chloro-phenyl)-2-phenylsulfanyl-ethanol

$$[\alpha]_D^{21} = +6.9 (c 1.5, CH_3Cl)$$

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

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



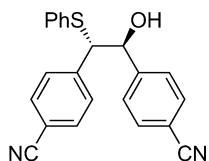
1,2-Bis-(3-cyano-phenyl)-2-phenylsulfanyl-ethanol

$$[\alpha]_D^{21} = +13.8 (c 0.7, CH_3Cl)$$

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

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



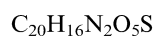
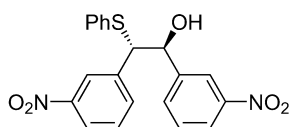
1,2-Bis-(4-cyano-phenyl)-2-phenylsulfanyl-ethanol

$$[\alpha]_D^{21} = +5.0 (c 0.6, CH_3Cl)$$

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

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



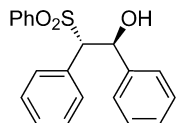
1,2-Bis-(3-nitro-phenyl)-2-phenylsulfanyl-ethanol

$$[\alpha]_D^{21} = -6.8 (c 0.7, CH_3Cl)$$

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

Yi-Jing Chen and Chinpiao Chen*

Tetrahedron: Asymmetry 18 (2007) 1313



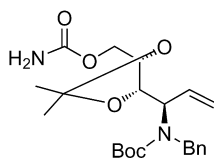
$C_{20}H_{18}O_3S$

2-Benzenesulfonyl-1,2-diphenyl-ethanol

$[\alpha]_D^{22} = -35.8$ (c 0.8, CH_3Cl)
Absolute configuration: (1*S*,2*S*)

Magalie Collet, Yves Génisson and Michel Baltas*

Tetrahedron: Asymmetry 18 (2007) 1320



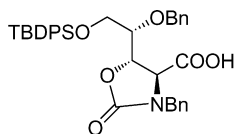
$C_{22}H_{32}N_2O_6$

(2*S*,3*S*,4*R*)-4-Benzylamino-4-*tert*-butylloxycarbonylamino-1-*O*-carbamoyl-2,3-dioxyisopropylidene-hex-5-en

Ee = 89%
 $[\alpha]_D^{25} = -3.5$ (c 1.26, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*S*,4*R*)

Magalie Collet, Yves Génisson and Michel Baltas*

Tetrahedron: Asymmetry 18 (2007) 1320



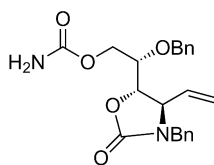
$C_{36}H_{39}NO_6Si$

(2*S*,3*S*,4*S*)-2-Benzyloxy-3-*O*,4-*N*-benzyl-carbamate-1-*tert*-butylidiphenylsilyloxy-pentanoic acid

Ee = 89%
 $[\alpha]_D^{25} = +22.4$ (c 0.75, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*S*,4*R*)

Magalie Collet, Yves Génisson and Michel Baltas*

Tetrahedron: Asymmetry 18 (2007) 1320



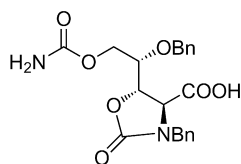
$C_{22}H_{24}N_2O_5$

(4*R*,5*S*)-3-Benzyl-5-((1*S*)-2-*O*-carbamoyl-1-benzyloxyethyl)-4-vinyl-1,3-oxazolan-2-one

Ee = 89%
 $[\alpha]_D^{25} = +89.2$ (c 1.70, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*S*,5*S*,1*S*)

Magalie Collet, Yves Génisson and Michel Baltas*

Tetrahedron: Asymmetry 18 (2007) 1320



C₂₁H₂₂N₂O₇

(2*S*,3*S*,4*S*)-2-Benzyloxy-3-*O*,4-*N*-benzyl-carbamate-1-aminocarbonyloxypentanoic acid

Ee = 89%

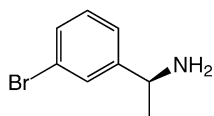
[α]_D²⁵ = +8.6 (*c* 0.45, CHCl₃)

Source of chirality: asymmetric synthesis

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

Iqbal I. Gill, Jagbandhu Das and Ramesh N. Patel*

Tetrahedron: Asymmetry 18 (2007) 1330



(*S*)-1

(*S*)-(3'-Bromophenyl)ethylamine

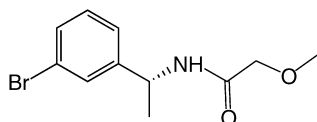
Pale-yellow oil

Ee = 99.8%

[α]_D²⁰ = -24.7 (*c* 2.9, methanol)

Iqbal I. Gill, Jagbandhu Das and Ramesh N. Patel*

Tetrahedron: Asymmetry 18 (2007) 1330



(*R*)-2b

(*R*)-*N*-(2''-Methoxyacetyl)-(3'-bromophenyl)ethylamine

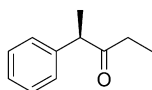
mp 131–135 °C (decomp)

Ee >99.8%

[α]_D²⁰ = +21.5 (*c* 3.0, methanol)

Cristina Rodríguez, Gonzalo de Gonzalo, Marco W. Fraaije and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 1338



C₁₁H₁₄O

(*R*)-2-Phenylpentan-3-one

Ee = 95% (GC, RtβDEXse)

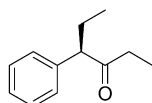
[α]_D²⁵ = -76.4 (*c* 1.20, CHCl₃)

Source of chirality: enzymatic oxidation

Absolute configuration: (*R*)

Cristina Rodríguez, Gonzalo de Gonzalo, Marco W. Fraaije and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 1338



C₁₂H₁₆O

(*R*)-4-Phenylhexan-3-one

Ee = 98% (GC, RtβDEXse)

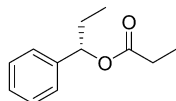
$[\alpha]_D^{25} = -61.2$ (c 0.75, CHCl₃)

Source of chirality: enzymatic oxidation

Absolute configuration: (*R*)

Cristina Rodríguez, Gonzalo de Gonzalo, Marco W. Fraaije and Vicente Gotor*

Tetrahedron: Asymmetry 18 (2007) 1338



C₁₂H₁₆O₂

(*S*)-1-Phenylpropyl propionate

Ee = 90% (GC, RtβDEXse)

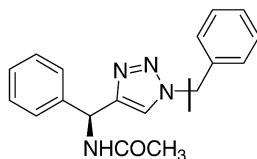
$[\alpha]_D^{25} = -41.7$ (c 0.83, CHCl₃)

Source of chirality: enzymatic oxidation

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



C₁₈H₁₈N₄O

(*S*)-*N*-[(1-Benzyl-1*H*-[1,2,3]triazol-4-yl)-phenyl-methyl]-acetamide

Ee 91%

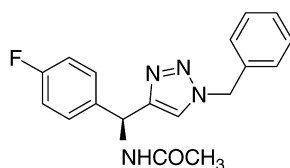
$[\alpha]_D^{20} = -9.2$ (c 0.6, MeOH)

Source of chirality: (*R*)-*N*-acetyl-1-phenyl-2-propynyl-amine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



C₁₈H₁₇FN₄O

(*S*)-*N*-[(1-Benzyl-1*H*-[1,2,3]triazol-4-yl)-(4-fluorophenyl)-methyl]-acetamide

Ee 93%

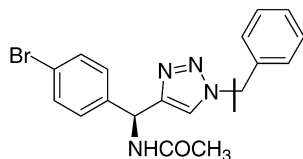
$[\alpha]_D^{20} = -7.9$ (c 1.1, CHCl₃)

Source of chirality: (*R*)-*N*-acetyl-1-(4-fluorophenyl)-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{18}H_{17}BrN_4O$

(*S*)-*N*-[(1-Benzyl-1*H*-[1,2,3]triazol-4-yl)-(4-bromophenyl)-methyl]-acetamide

Ee 95%

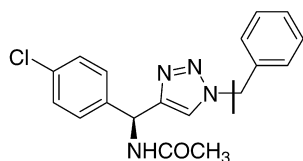
$[\alpha]_D^{20} = -10.0$ (*c* 0.6, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-(4-bromophenyl)-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{18}H_{17}ClN_4O$

(*S*)-*N*-[(1-Benzyl-1*H*-[1,2,3]triazol-4-yl)-(4-chlorophenyl)-methyl]-acetamide

Ee 99%

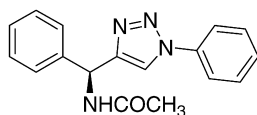
$[\alpha]_D^{20} = -10.9$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-(4-chlorophenyl)-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{17}H_{16}N_4O$

(*S*)-*N*-[Phenyl-(1-phenyl-1*H*-[1,2,3]triazol-4-yl)-methyl]-acetamide

Ee 95%

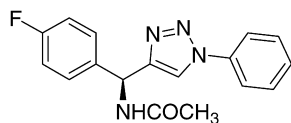
$[\alpha]_D^{20} = -9.4$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-phenyl-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{17}H_{15}FN_4O$

(*S*)-*N*-[4-Fluorophenyl-(1-phenyl-1*H*-[1,2,3]triazol-4-yl)-methyl]-acetamide

Ee 95%

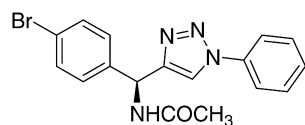
$[\alpha]_D^{20} = -6.6$ (*c* 0.9, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-(4-fluorophenyl)-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{17}H_{15}BrN_4O$

(*S*)-*N*-[4-Bromophenyl-(1-phenyl-1*H*-[1,2,3]triazol-4-yl)-methyl]-acetamide

Ee 89%

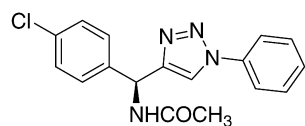
$[\alpha]_D^{20} = -6.8$ (*c* 1.7, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-(4-bromophenyl)-2-propynylamine

Absolute configuration: (*S*)

Daniele Castagnolo, Filippo Dessì, Marco Radi and Maurizio Botta*

Tetrahedron: Asymmetry 18 (2007) 1345



$C_{17}H_{15}ClN_4O$

(*S*)-*N*-[4-Chlorophenyl-(1-phenyl-1*H*-[1,2,3]triazol-4-yl)-methyl]-acetamide

Ee 79%

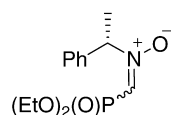
$[\alpha]_D^{20} = -9.8$ (*c* 1.0, $CHCl_3$)

Source of chirality: (*R*)-*N*-acetyl-1-(4-chlorophenyl)-2-propynylamine

Absolute configuration: (*S*)

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



$C_{13}H_{20}NO_4P$

N-[(*S*)-1-Phenylethyl]-*C*-(diethoxyphosphoryl)nitron

Ee = 100%

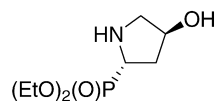
$[\alpha]_D^{20} = +7.5$ (*c* 1.9, $CHCl_3$)

Source of chirality: (*S*)-1-phenylethylamine

Absolute configuration: (*S*)

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



$C_8H_{18}NO_4P$

Diethyl (*2S,4S*)-4-hydroxypyrrolidiny-2-phosphonate

Ee = 100%

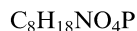
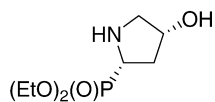
$[\alpha]_D^{20} = -4.6$ (*c* 1.0, CH_3OH)

Source of chirality: (*S*)-1-phenylethylamine

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

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



Diethyl (2*S*,4*R*)-4-hydroxypyrrolidinyl-2-phosphonate

Ee = 100%

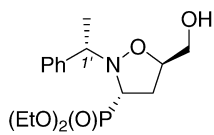
$[\alpha]_D^{20} = +10.7$ (*c* 1.1, CH₃OH)

Source of chirality: (*S*)-1-phenylethylamine

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

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



Diethyl (3*S*,5*R*)-5-(hydroxymethyl)-2-[(*S*)-1-phenylethyl]isoxazolidinyl-3-phosphonate

Ee = 100%

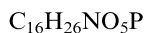
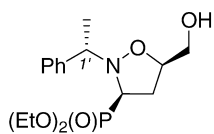
$[\alpha]_D^{20} = -3.8$ (*c* 1.1, CHCl₃)

Source of chirality: (*S*)-1-phenylethylamine

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

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



Diethyl (3*R*,5*R*)-5-(hydroxymethyl)-2-[(*S*)-1-phenylethyl]isoxazolidinyl-3-phosphonate

Ee = 100%

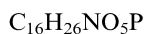
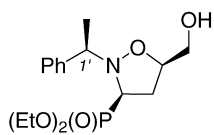
$[\alpha]_D^{20} = -63.6$ (*c* 1.5, CHCl₃)

Source of chirality: (*S*)-1-phenylethylamine

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

Dorota G. Piotrowska* and Iwona E. Głowacka

Tetrahedron: Asymmetry 18 (2007) 1351



Diethyl (3*R*,5*R*)-5-(hydroxymethyl)-2-[(*R*)-1-phenylethyl]isoxazolidinyl-3-phosphonate

Ee = 100%

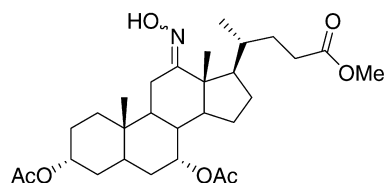
$[\alpha]_D^{20} = +1.6$ (*c* 1.3, CHCl₃)

Source of chirality: (*R*)-1-phenylethylamine

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

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{29}H_{45}NO_7$

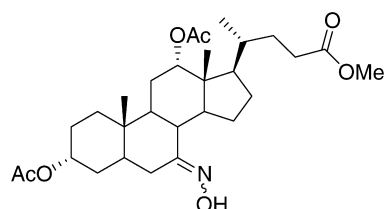
Methyl-3,7-diacetyloxy-12-oxime-5-cholan-24-oate

$[\alpha]_D^{22} = +130.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{29}H_{45}NO_7$

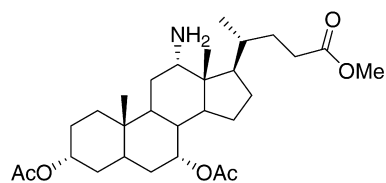
Methyl-3,12-diacetyloxy-7-oxime-5-cholan-24-oate

$[\alpha]_D^{22} = +12.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{29}H_{47}NO_6$

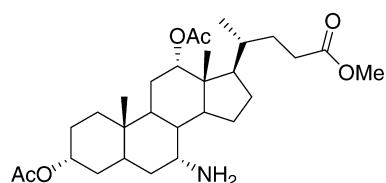
Methyl-3,7-diacetyloxy-12-amine-5-cholan-24-oate

$[\alpha]_D^{22} = +35.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{29}H_{47}NO_6$

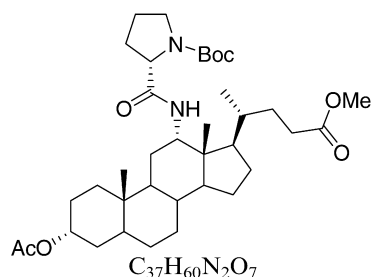
Methyl-3,12-diacetyloxy-7-amine-5-cholan-24-oate

$[\alpha]_D^{22} = +68.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

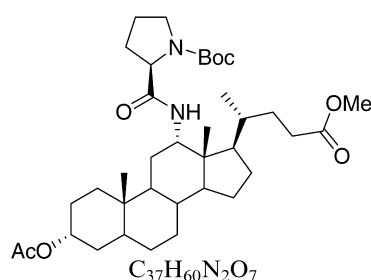


Methyl-3-acetyloxy-12-*N*-(L-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +31.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

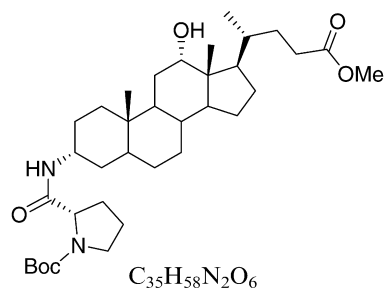


Methyl-3-acetyloxy-12-*N*-(D-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +176.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

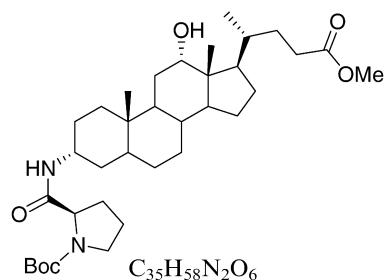


Methyl-12-hydroxy-3-*N*-(L-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +65.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

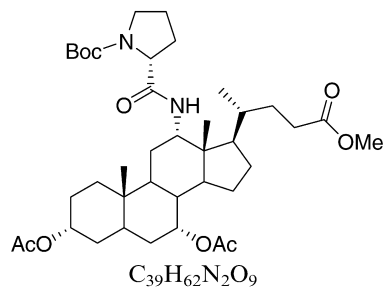


Methyl-12-hydroxy-3-*N*-(D-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +102.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

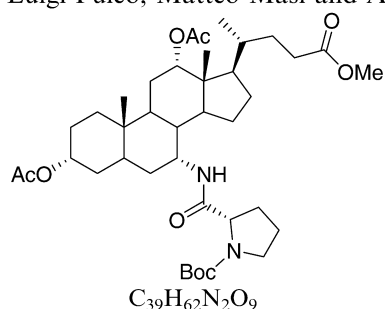


Methyl-3,7-diacetyloxy-12-*N*-(*D*-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +113.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

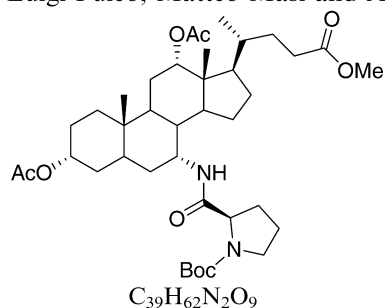


Methyl-3,12-diacetyloxy-7-*N*-(*L*-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +23.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

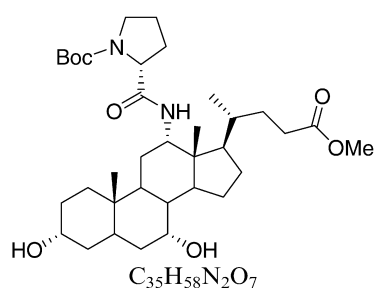


Methyl-3,12-diacetyloxy-7-*N*-(*D*-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +103.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

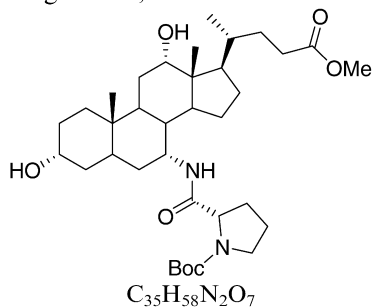


Methyl-3,7-dihydroxy-12-*N*-(*D*-Boc-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +97.4$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

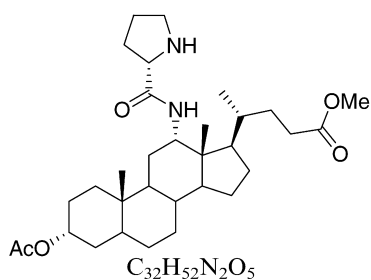


$[\alpha]_D^{22} = -3.6$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Methyl-3,12-dihydroxy-12-*N*-(*L*-Boc-prolinoyl)amino-5-cholan-24-oate

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

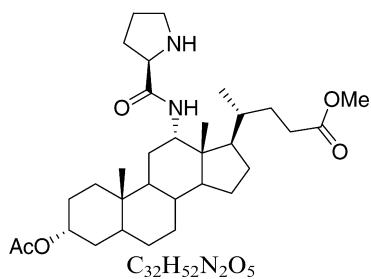


$[\alpha]_D^{22} = +73.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Methyl-3-acetyloxy-12-*N*-(*L*-prolinoyl)amino-5-cholan-24-oate

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

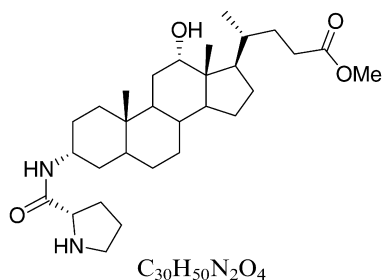


$[\alpha]_D^{22} = +171.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Methyl-3-acetyloxy-12-*N*-(*D*-prolinoyl)amino-5-cholan-24-oate

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364

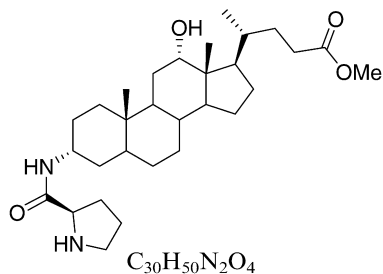


$[\alpha]_D^{22} = +36.0$ (*c* 1.00, CH_2Cl_2)
Source of chirality: natural source

Methyl-12-hydroxy-3-*N*-(*L*-prolinoyl)amino-5-cholan-24-oate

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



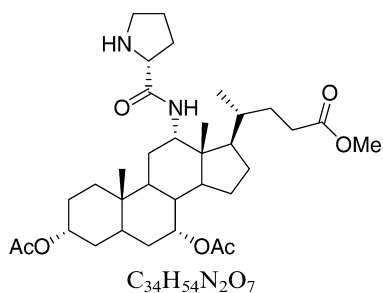
Methyl-12-hydroxy-3-*N*-(*D*-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +54.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



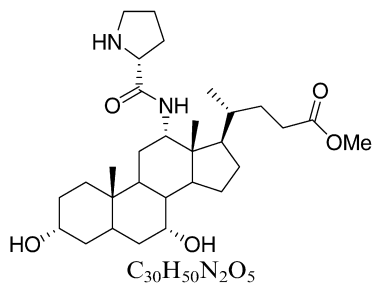
Methyl-3,7-diacetyloxy-12-*N*-(*D*-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +69.5$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



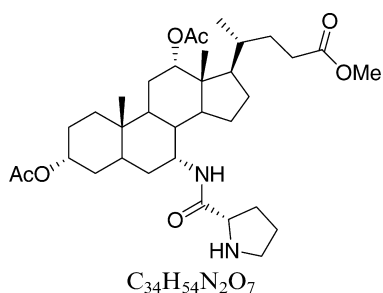
Methyl-3,7-hydroxy-12-*N*-(*D*-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +79.9$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



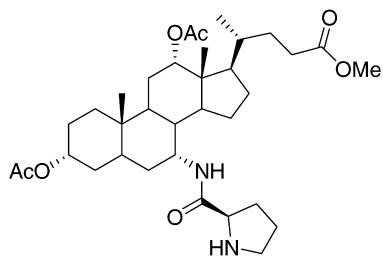
Methyl-3,12-diacetyloxy-7-*N*-(*L*-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +84.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{34}H_{54}N_2O_7$

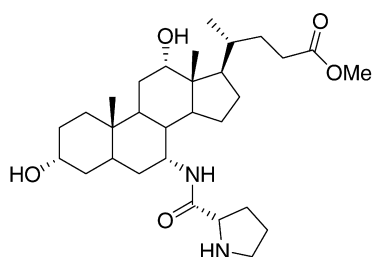
Methyl-3,12-diacetyloxy-7-*N*-(D-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +131.0$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{30}H_{50}N_2O_5$

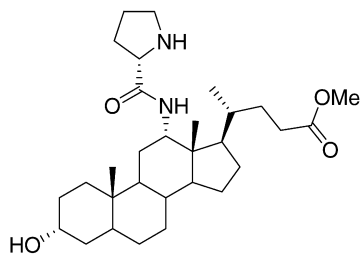
Methyl-3,12-dihydroxy-7-*N*-(L-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +3.7$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Gian Luigi Puleo, Matteo Masi and Anna Iuliano*

Tetrahedron: Asymmetry 18 (2007) 1364



$C_{30}H_{50}N_2O_4$

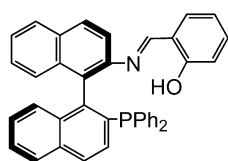
Methyl-3-hydroxy-12-*N*-(D-prolinoyl)amino-5-cholan-24-oate

$[\alpha]_D^{22} = +69.6$ (*c* 1.00, CH_2Cl_2)

Source of chirality: natural source

Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry 18 (2007) 1376



$C_{39}H_{28}NOP$

(*R*)-(+)-2-((2-(Diphenylphosphino)-1,1'-binaphthyl-2'-ylimino)methyl)phenol

Ee = 100%

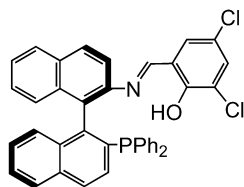
$[\alpha]_D^{20} = +224.6$ (*c* 0.45, $CHCl_3$)

Source of chirality: optical resolution

Absolute configuration: (*R*)

Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry 18 (2007) 1376



$C_{39}H_{26}Cl_2NOP$

(*R*)-(+)-2,4-Dichloro-6-((2-(diphenylphosphino)-1,1'-binaphthyl-2'-ylimino)methyl)phenol

Ee = 100%

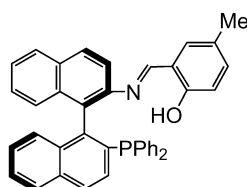
$[\alpha]_D^{20} = +163$ (*c* 0.25, $CHCl_3$)

Source of chirality: optical resolution

Absolute configuration: (*R*)

Jia-Jun Jiang and Min Shi*

Tetrahedron: Asymmetry 18 (2007) 1376



$C_{40}H_{30}NOP$

(*R*)-(+)-2-((2-(Diphenylphosphino)-1,1'-binaphthyl-2'-ylimino)methyl)-4-methylphenol

Ee = 100%

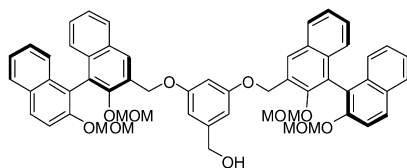
$[\alpha]_D^{20} = +178$ (*c* 0.25, $CHCl_3$)

Source of chirality: optical resolution

Absolute configuration: (*R*)

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{57}H_{52}O_{11}$

(3,5-Bis(((*R*)-2,2'-bis(methoxymethoxy)-1,1'-binaphthyl-3-yl)methoxy)phenyl)methanol

Ee = 100%

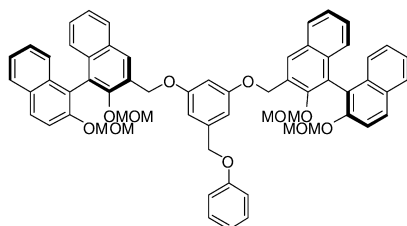
$[\alpha]_D^{20} = +103$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (*R*)-BINOL

Absolute configuration: (*R*)

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{63}H_{56}O_{11}$

(1*R*,1'*R*)-3,3'-(5-(Phenoxymethyl)-1,3-phenylene)bis(oxy)bis(methylene)bis(2,2'-bis(methoxymethoxy)-1,1'-binaphthyl)

Ee = 100%

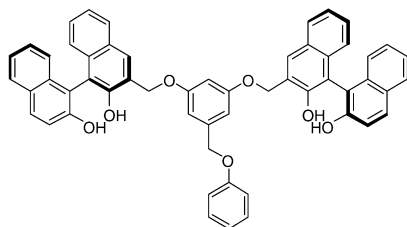
$[\alpha]_D^{20} = +90$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (*R*)-BINOL

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

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{55}H_{40}O_7$

(1*R*,1'*R*)-3,3'-(5-(Phenoxymethyl)-1,3-phenylene)bis(oxy)bis(methylene)di-1,1'-binaphthyl-2,2'-diol

Ee = 100%

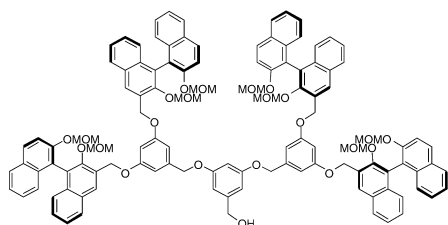
$[\alpha]_D^{20} = +46$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (*R*)-BINOL

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

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{121}H_{108}O_{23}$

(3,5-Bis(3,5-bis(((*R*)-2,2'-bis(methoxymethoxy)-1,1'-binaphthyl-3-yl)methoxy)benzyloxy)phenyl)methanol

Ee = 100%

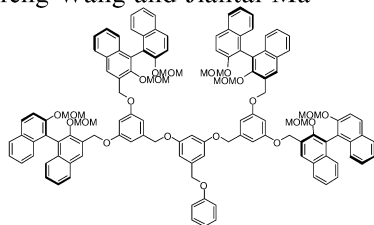
$[\alpha]_D^{20} = +88$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (*R*)-BINOL

Absolute configuration: (*R*)

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{127}H_{112}O_{23}$

(1*R*,1'*R*,1''*R*,1'''*R*)-3,3',3'',3'''-(5,5'-(5-(Phenoxymethyl)-1,3-phenylene)bis(oxy)bis(methylene)bis(benzene-5,3,1-triyl))tetrakis(oxy)-tetrakis(methylene)tetrakis(2,2'-bis(methoxymethoxy)-1,1'-binaphthyl)

Ee = 100%

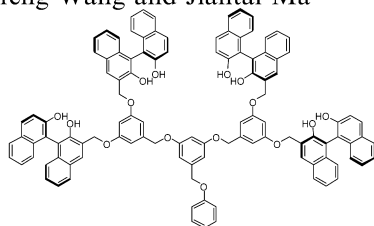
$[\alpha]_D^{20} = +76$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (*R*)-BINOL

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

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



$C_{111}H_{80}O_{15}$

(1*R*,1'*R*,1''*R*,1'''*R*)-3,3',3'',3'''-(5,5'-(5-(Phenoxymethyl)-1,3-phenylene)bis(oxy)bis(methylene)bis(benzene-5,3,1-triyl))tetrakis(oxy)tetrakis(methylene)tetra-1,1'-binaphthyl-2,2'-diol

Ee = 100%

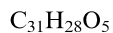
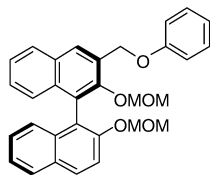
$[\alpha]_D^{20} = +49$ (*c* 1.0, CH₂Cl₂)

Source of chirality: (*R*)-BINOL

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

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



(*R*)-2,2'-Bis(methoxymethoxy)-3-(phenoxyethyl)-1,1'-binaphthyl

Ee = 100%

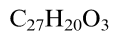
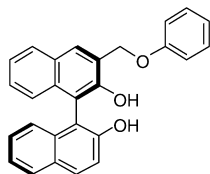
$[\alpha]_D^{20} = +28$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (*R*)-BINOL

Absolute configuration: (*R*)

Liang Yin, Rong Li, Fushan Wang, Huanling Wang, Yunfeng Zheng,
Chaofeng Wang and Jiantai Ma*

Tetrahedron: Asymmetry 18 (2007) 1383



(*R*)-3-(Phenoxyethyl)-1,1'-binaphthyl-2,2'-diol

Ee = 100%

$[\alpha]_D^{20} = +53$ (*c* 1.0, CH_2Cl_2)

Source of chirality: (*R*)-BINOL

Absolute configuration: (*R*)