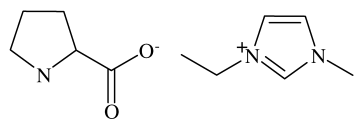
Yunbo Qian, Shiyong Xiao, Lei Liu, Yongmei Wang*

Tetrahedron: Asymmetry *19 (2008) 1515*



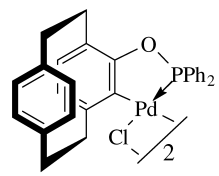
$C_{11}H_{19}N_3O_2$

1-Ethyl-3-methylimidazolium-(*S*)-2-pyrrolidinecarboxylic acid salt

$[\alpha]_D^{25} = +51.0$ (*c* 1, MeOH)
Source of chirality: L-proline

Valery V. Dunina,* Eugeniya I. Turubanova, Michail V. Livantsov, Konstantin A. Lyssenko, Yuri K. Grishin*

Tetrahedron: Asymmetry *19 (2008) 1519*



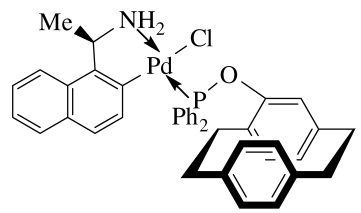
$C_{56}H_{48}Cl_2O_2P_2Pd_2$

(R_{pl},R_{pl})-Di-μ-chlorobis{4-diphenylphosphinoxy[2.2]paracyclophan-5-yl-C,P}dipalladium(II)

Ee >98%
$[\alpha]_D^{24} = +166$ (*c* 0.68, CH_2Cl_2)
Source of chirality: ligand resolution on (R_C)-CN-palladacycle
Absolute configuration: (R_{pl})

Valery V. Dunina,* Eugeniya I. Turubanova, Michail V. Livantsov, Konstantin A. Lyssenko, Yuri K. Grishin*

Tetrahedron: Asymmetry *19 (2008) 1519*



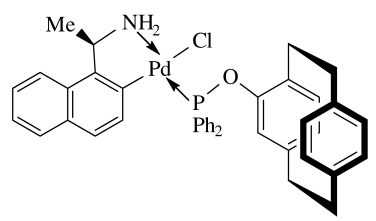
$C_{40}H_{37}ClNOPPd$

(S_{pl},R_C)-Chloro{1-(1-aminoethyl)naphthyl-*C*,*N*}{4-diphenylphosphinoxyl[2.2]paracyclophane-P}palladium(II)

Ee >98%
$[\alpha]_D^{24} = +21.7$ (*c* 1.20, CH_2Cl_2)
Source of chirality: ligand resolution on (R_C)-CN-palladacycle
Absolute configuration: (S_{pl},R_C)

Valery V. Dunina,* Eugeniya I. Turubanova, Michail V. Livantsov, Konstantin A. Lyssenko, Yuri K. Grishin*

Tetrahedron: Asymmetry *19 (2008) 1519*



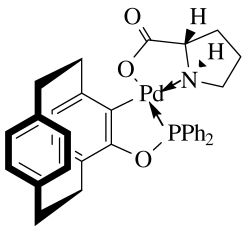
$C_{40}H_{37}ClNOPPd$

(R_{pl},R_C)-Di-μ-chlorobis{4-diphenylphosphinoxy[2.2]paracyclophan-5-yl-C,P}dipalladium(II)

Ee >98%
$[\alpha]_D^{24} = -36.7$ (*c* 1.20, CH_2Cl_2)
Source of chirality: ligand resolution on (R_C)-CN-palladacycle
Absolute configuration: (R_{pl},R_C)

Valery V. Dunina,* Eugeniya I. Turubanova, Michail V. Livantsov,
Konstantin A. Lyssenko, Yuri K. Grishin*

Tetrahedron: Asymmetry *19 (2008) 1519*



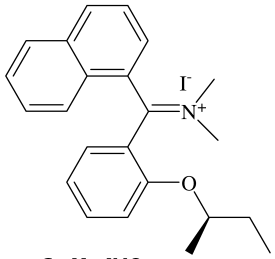
$C_{33}H_{32}NO_3PPd$

(S_{pl},S_C,S_N)-{4-Diphenylphosphinoxyl[2.2]paracyclophane-5-yl-*P*,*C*}(prolinate-*N*,*O*)palladium(II)

Ee >98%
$[\alpha]_D^{24} = +244.7$ (*c* 0.47, CH_2Cl_2)
Source of chirality: ligand resolution on (R_C)-CN-palladacycle
Absolute configuration: (S_{pl},S_C,S_N)

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,*
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*



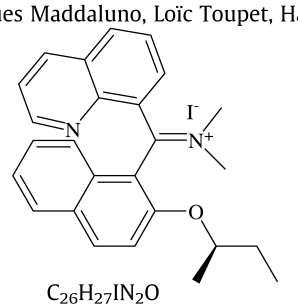
$C_{23}H_{26}INO$

(*R*)-*N*-[(2-*sec*-Butoxyphenyl)(naphthalen-1-yl)methylene]-*N*-methylmethaniminium iodide

$[\alpha]^{25} = -19$ and -12 (*c* 0.31, CH_2Cl_2)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: (*R*)

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,*
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*



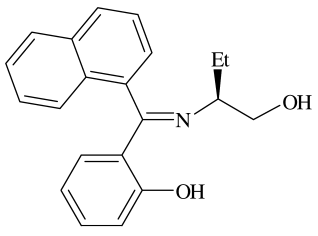
$C_{26}H_{27}IN_2O$

(*R*)-*N*-[(2-*sec*-Butoxynaphthalen-1-yl)(quinolin-8-yl)methylene]-*N*-methylmethaniminium iodide

$[\alpha]^{25} = -17$ and -11.5 (*c* 1, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: (*R*)

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,*
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*



$C_{21}H_{21}NO_2$

(*S*)-2-[(1-Hydroxybutan-2-ylimino)(naphthalen-1-yl)methyl]phenol

$[\alpha]^2 = +76.3$ (*c* 0.535, $CHCl_3$)
Source of chirality: 2-(*S*)-aminobutanol
Absolute configuration: (*S*)

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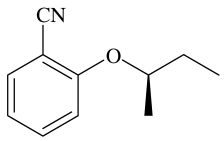
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*



$[\alpha]^{25} = -54$ (*c* 1.2, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: (*R*)

$C_{11}H_{13}NO$
(*R*)-2-*sec*-Butoxybenzonitrile

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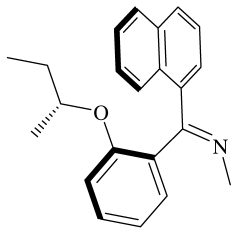
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*

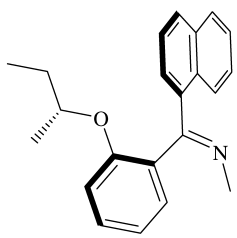


$[\alpha]^{25} = -59$ and -32 (*c* 1, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: *syn*, (*aS*,*R*)

$C_{22}H_{23}NO$
(*syn*)-(*aS*)-*N*-[(2-(*R*)-*sec*-Butoxyphenyl)(naphthalen-1-yl)methylene]methanamine

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,*
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*

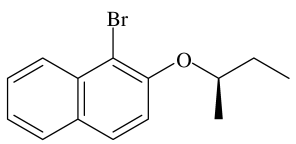


$[\alpha]^{25} = -59$ and -32 (*c* 1, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: *syn*, (*aR*,*R*)

$C_{22}H_{23}NO$
(*syn*)-(*aR*)-*N*-[(2-(*R*)-*sec*-Butoxyphenyl)(naphthalen-1-yl)methylene]methanamine

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,*
Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*

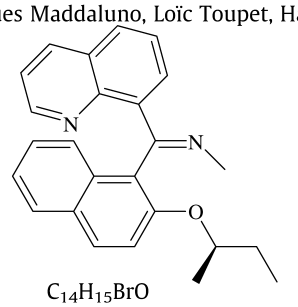


$[\alpha]^{25} = -18.6$ and -10.5 (*c* 1, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: (*R*)

$C_{25}H_{24}N_2O$
(*syn*)-*N*-[(2-(*R*)-*sec*-Butoxynaphthalen-1-yl)(quinolin-8-yl)methylene]methanamine

Abdelaziz Retmane, Said Gmouh, Marc Runghen, Jean-Yves Valnot,* Jacques Maddaluno, Loïc Toupet, Hassan Oulyadi, Jamal Jamal Eddine*

Tetrahedron: Asymmetry *19 (2008) 1523*



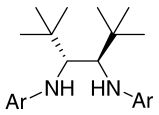
$C_{14}H_{15}BrO$

1-Bromo-2-[(*R*)-*sec*-butoxy]naphthalene

$[\alpha]^{25} = -2.1$ (c 0.16, $CHCl_3$)
Source of chirality: 2-(*S*)-*sec*-butanol
Absolute configuration: (*R*)

Sandra C. Zinner, Wolfgang A. Herrmann*, Fritz E. Kühn*

Tetrahedron: Asymmetry *19 (2008) 1532*



Ar =2,6-diisopropylphenyl

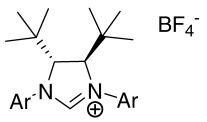
$C_{34}H_{56}N_2$

N,*N*′-Bis-(2,6-diisopropyl-phenyl)-1,2-diamino-(1*R*,2*R*)-di-*tert*-butylethane

Ee = 100%
$[\alpha]_D^{20} = -16$ (*c* 0.0063, Et_2O)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,2*R*)

Sandra C. Zinner, Wolfgang A. Herrmann*, Fritz E. Kühn*

Tetrahedron: Asymmetry *19 (2008) 1532*



Ar =2,6-diisopropylphenyl

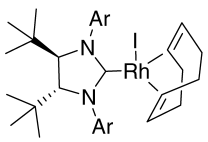
$C_{35}H_{55}BF_4N_2$

1,3-Bis-(2,6-diisopropylphenyl)-(4*R*,5*R*)-di-*tert*-butyl-4,5-dihydro-imidazolin tetrafluoroborate

Ee = 100%
$[\alpha]_D^{20} = -83.3$ (*c* 0.0012, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,5*R*)

Sandra C. Zinner, Wolfgang A. Herrmann*, Fritz E. Kühn*

Tetrahedron: Asymmetry *19 (2008) 1532*



Ar =2,6-diisopropylphenyl

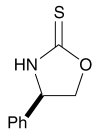
$C_{43}H_{65}N_2RhI$

[(4*R*,5*R*)-1,3-Bis[2,6-diisopropylphenyl]-4,5-di-*tert*-butylimidazolin-2-ylidene][(1,2,5,6-η)-1,5-cyclooctadiene]iodorhodium(I)

Ee = 100%
$[\alpha]_D^{20} = -60.6$ (*c* 0.025, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,5*R*)

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



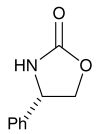
Ee >98%
$[\alpha]_D^{20} = -80.3$ (*c* 0.3, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*)

C_9H_9NOS

(*R*)-4-Phenyl-oxazolidin-2-thione

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



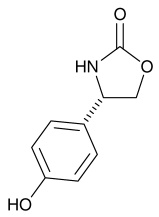
Ee >98%
$[\alpha]_D^{20} = +47.8$ (*c* 0.8, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*)

$C_9H_9NO_2$

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

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



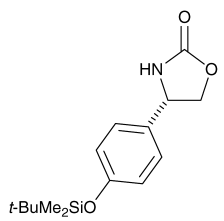
Ee >98%
$[\alpha]_D^{20} = +41.4$ (*c* 1.7, EtOH)
Source of chirality: chiral pool
Absolute configuration: (*S*)

$C_9H_9NO_3$

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

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



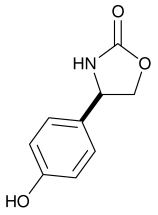
Ee >98%
$[\alpha]_D^{20} = +36.3$ (*c* 2.0, EtOH)
Source of chirality: chiral pool
Absolute configuration: (*S*)

$C_{15}H_{23}NO_3Si$

(*S*)-4-[4-(*tert*-Butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



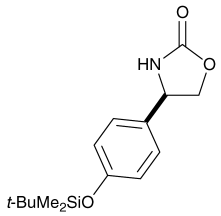
$C_9H_9NO_3$

(*R*)-4-(4-Hydroxyphenyl)-oxazolidin-2-one

Ee >98%
$[\alpha]_D^{20} = -39.4$ (*c* 0.7, EtOH)
Source of chirality: chiral pool
Absolute configuration: (*R*)

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



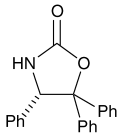
$C_{15}H_{23}NO_3Si$

(*R*)-4-[4-(*tert*-Butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

Ee >98%
$[\alpha]_D^{20} = -34.8$ (*c* 1.7, EtOH)
Source of chirality: chiral pool
Absolute configuration: (*R*)

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



$C_{21}H_{17}NO_2$

(*S*)-4,5,5-Triphenyl-oxazolidin-2-one

Ee >98%
$[\alpha]_D^{20} = -213.3$ (*c* 0.5, EtOH)
Source of chirality: chiral pool
Absolute configuration: (*S*)

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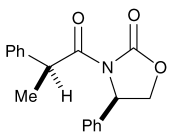
Tetrahedron: Asymmetry *19 (2008) 1536*



$C_{18}H_{17}NO_3$

(2*S*,4*R*)-3-(2-Phenylpropionyl)-4-phenyl-oxazolidin-2-one

De >98%; ee >98%
$[\alpha]_D^{20} = +92.5$ (*c* 4.9, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (2*S*,4*R*)

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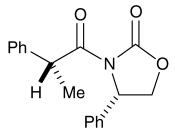
Tetrahedron: Asymmetry *19 (2008) 1536*



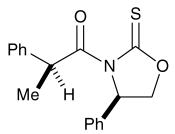
De >98%; ee >98%
$[\alpha]_D^{20} = -91.9$ (*c* 4.9, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (2*R*,4*S*)

$C_{18}H_{17}NO_3$

(2*R*,4*S*)-3-(2-Phenylpropionyl)-4-phenyl-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -58.3$ (*c* 4.0, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{18}H_{17}NO_2S$

(2*S*,4*R*)-3-(2-Phenylpropionyl)-4-phenyl-oxazolidin-2-thione

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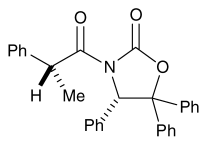
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -255.1$ (*c* 3.4, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{30}H_{25}NO_3$

(2*R*,4*S*)-3-(2-Phenylpropionyl)-4,5,5-triphenyl-oxazolidin-2-one

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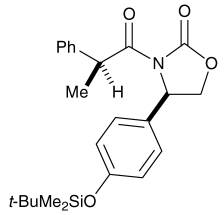
Tetrahedron: Asymmetry *19 (2008) 1536*



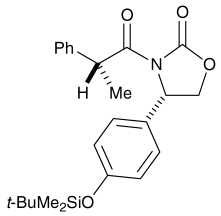
De >98%; ee >98%
$[\alpha]_D^{20} = +89.1$ (*c* 4.2, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{24}H_{31}NO_4Si$

(2*S*,4*R*)-3-(2-Phenylpropionyl)-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -95.2$ (*c* 2.0, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{24}H_{31}NO_4Si$

(2*R*,4*S*)-3-(2-Phenylpropionyl)-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

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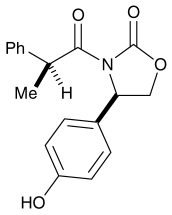
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = +81.2$ (*c* 1.3, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{18}H_{17}NO_4$

(2*S*,4*R*)-3-(2-Phenylpropionyl)-4-(4-hydroxyphenyl)-oxazolidin-2-one

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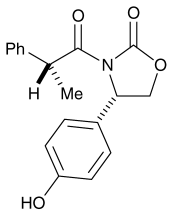
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -78.6$ (*c* 2.5, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{18}H_{17}NO_4$

(2*R*,4*S*)-3-(2-Phenylpropionyl)-4-(4-hydroxyphenyl)-oxazolidin-2-one

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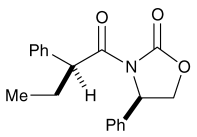
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



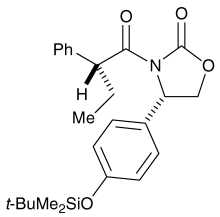
De >98%; ee >98%
$[\alpha]_D^{20} = +77.4$ (*c* 4.0, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{19}H_{19}NO_3$

(2*S*,4*R*)-4-Phenyl-3-(2-phenylbutanoyl)-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -89.4$ (*c* 4.4, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{25}H_{33}NO_4Si$

(2*R*,4*S*)-3-(2-Phenylbutanoyl)-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

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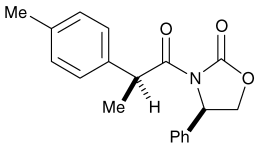
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = +121.6$ (*c* 0.6, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{19}H_{19}NO_3$

(2*S*,4*R*)-3-[2-(4-Methylphenyl)propionyl]-4-phenyl-oxazolidin-2-one

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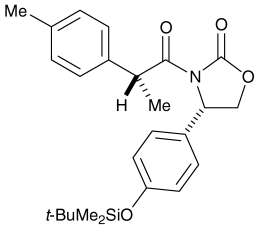
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



De >98%; ee >98%
$[\alpha]_D^{20} = -120.3$ (*c* 6.0, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{25}H_{33}NO_4Si$

(2*R*,4*S*)-3-[2-(4-Methylphenyl)propionyl]-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

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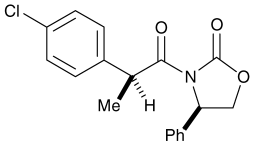
Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



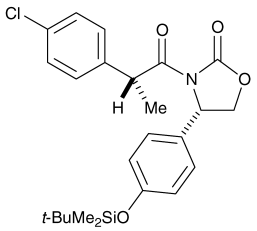
De >98%; ee >98%
$[\alpha]_D^{20} = +144.4$ (*c* 1.6, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{18}H_{16}NO_3Cl$

(2*S*,4*R*)-3-[2-(4-Chlorophenyl)propionyl]-4-phenyl-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



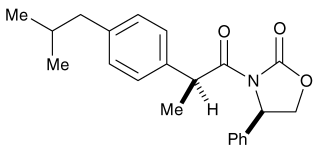
De >98%; ee >98%
$[\alpha]_D^{20} = -130.8$ (*c* 4.2, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{24}H_{30}ClNO_4Si$

(2*R*,4*S*)-3-[2-(4-Chlorophenyl)propionyl]-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



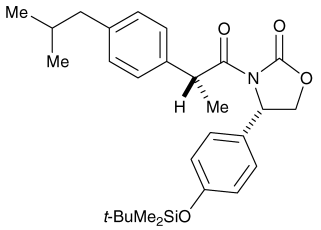
De >98%; ee >98%
$[\alpha]_D^{20} = +118.7$ (*c* 6.0, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*S*,*R*)

$C_{22}H_{25}NO_3$

(2*S*,4*R*)-3-[2-(4-Isobutylphenyl)propionyl]-4-phenyl-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



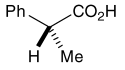
De >98%; ee >98%
$[\alpha]_D^{20} = -129.6$ (*c* 3.4, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*,*S*)

$C_{28}H_{39}NO_4Si$

(2*R*,4*S*)-3-[2-(4-Isobutylphenyl)propionyl]-4-[4-(*tert*-butyldimethylsilyloxy)phenyl]-oxazolidin-2-one

Sameer Chavda, Elliot Coulbeck, Marco Dingjan, Jason Eames,* Anthony Flinn, Julian Northen

Tetrahedron: Asymmetry *19 (2008) 1536*



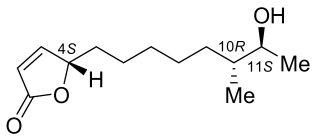
Ee >98%
$[\alpha]_D^{20} = -71.4$ (*c* 0.7, $CHCl_3$)
Source of chirality: chiral pool
Absolute configuration: (*R*)

$C_9H_{10}O_2$

(*R*)-2-Phenylpropionic acid

Wei-Min Dai,* Lei Shi, Yannian Li

Tetrahedron: Asymmetry *19 (2008) 1549*



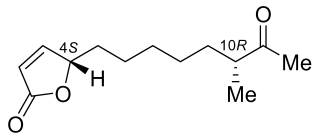
$C_{13}H_{22}O_3$

(4*S*,10*R*,11*S*)-4,11-Dihydroxy-10-methyldodec-2-en-1,4-olide

Diastereomer ratio: (4*S*,10*R*,11*S*):(4*R*,10*R*,11*S*) ⩾91:9
$[\alpha]_D^{23} = +78.0$ (*c* 0.10, MeOH)
Source of chirality: asymmetric reaction
Absolute configuration: (4*S*,10*R*,11*S*)

Wei-Min Dai,* Lei Shi, Yannian Li

Tetrahedron: Asymmetry *19 (2008) 1549*



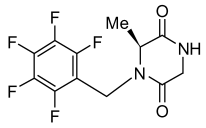
$C_{13}H_{20}O_3$

(4*S*,10*R*)-4-Hydroxy-10-methyl-11-oxododec-2-en-1,4-olide

Diastereomer ratio: (4*S*,10*R*):(4*R*,10*R*) ⩾91:9
$[\alpha]_D^{23} = +32.0$ (*c* 0.10, MeOH)
Source of chirality: asymmetric reaction
Absolute configuration: (4*S*,10*R*)

Črt Malavašič, Jernej Wagger, Branko Stanovnik, Jurij Svete*

Tetrahedron: Asymmetry *19 (2008) 1557*



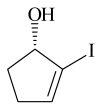
$C_{12}H_9F_5N_2O_2$

(*S*)-6-Methyl-1-(pentafluorobenzyl)piperazine-2,5-dione

Ee = 100%
$[\alpha]_D^{28} = +4.2$ (*c* 0.15, $CHCl_3$)
Source of chirality: (*S*)-alanine methyl ester
Absolute configuration: (*S*)

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*



C_5H_7IO

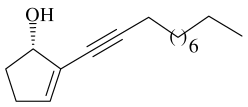
(*S*)-2-Iodocyclopent-2-enol

$[\alpha]_D^{25} = -25.5$ (*c* 1.0, $CHCl_3$)
Absolute configuration: (*S*)

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = -23.0$ (*c* 1.4, $CHCl_3$)
Absolute configuration: (*S*)

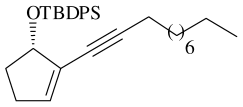


$C_{16}H_{26}O$
(*S*)-2-(Undec-1-ynyl)cyclopent-2-enol

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = -45.6$ (*c* 1.9, $CHCl_3$)
Absolute configuration: (*S*)

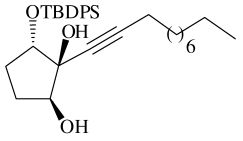


$C_{32}H_{44}OSi$
(*S*)-*tert*-Butyldiphenyl(2-(undec-1-ynyl)cyclopent-2-enyloxy)silane

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = -9.2$ (*c* 1.5, $CHCl_3$)
Absolute configuration: (1*S*,2*S*,5*S*)

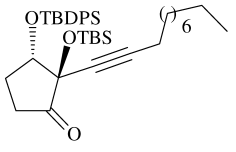


$C_{32}H_{46}O_3Si$
(1*S*,2*S*,5*S*)-5-(*tert*-Butyldiphenylsilyloxy)-1-(undec-1-ynyl)-cyclopentane-1,2-diol

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = +6.6$ (*c* 1.5, $CHCl_3$)
Absolute configuration: (2*R*,3*S*)

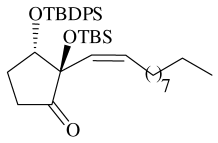


$C_{38}H_{58}O_3Si_2$
(2*R*,3*S*)-2-(*tert*-Butyldimethylsilyloxy)-3-(*tert*-butyldiphenylsilyloxy)-2-(undec-1-ynyl)cyclopentanone

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = +2.4$ (*c* 0.9, $CHCl_3$)
Absolute configuration: (2*R*,3*S*)



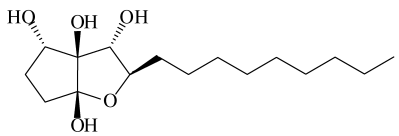
$C_{38}H_{60}O_3Si_2$

(2*R*,3*S*,*Z*)-2-(*tert*-Butyldimethylsilyloxy)-3-(*tert*-butyldiphenylsilyloxy)-2-(undec-1-enyl)cyclopentanone

Debendra K. Mohapatra,* Bhaskar Chatterjee, Mukund K. Gurjar

Tetrahedron: Asymmetry *19 (2008) 1568*

$[\alpha]_D^{25} = +19.6$ (*c* 0.9, acetone)



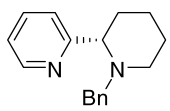
$C_{16}H_{30}O_5$

(+)-Heliconol A

Yan-Qin Cheng, Zheng Bian, Chuan-Qing Kang, Hai-Quan Guo, Lian-Xun Gao*

Tetrahedron: Asymmetry *19 (2008) 1572*

$[\alpha]_D^{20} = -60.5$ (*c* 0.55, ethanol)
Absolute configuration: (*S*)



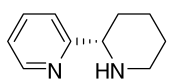
$C_{17}H_{20}N_2$

(*S*)-2-(1-Benzyl-2-piperidinyl)pyridine

Yan-Qin Cheng, Zheng Bian, Chuan-Qing Kang, Hai-Quan Guo, Lian-Xun Gao*

Tetrahedron: Asymmetry *19 (2008) 1572*

$[\alpha]_D^{20} = -47.0$ (*c* 0.62, ethanol)
Absolute configuration: (*S*)

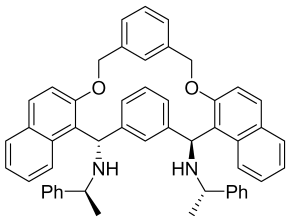


$C_{10}H_{14}N_2$

(*S*)-2-(2′-Piperidinyl)pyridine

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



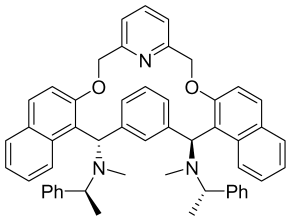
$[\alpha]_D^{20} = +19.6$ (*c* 0.23, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{52}H_{46}N_2O_2$

(12*S*,18*S*)-*N*12,*N*18-Bis[(1*S*)-1-phenylethyl]-{2*H*,8*H*,12*H*,18*H*-(3,7),(13,17)-dimetheno-dinaphtho[2,1-*j*:1′,2′-*s*][1,9] dioxacycloeicosin-12,18-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



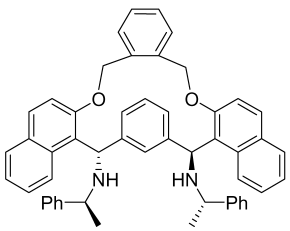
$[\alpha]_D^{20} = +349.0$ (*c* 0.67, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{53}H_{49}N_3O_2$

(12*S*,18*S*)-*N*12,*N*18-Dimethyl-*N*12,*N*18-bis[(1*S*)-1-phenylethyl]-{2*H*,8*H*,12*H*,18*H*-13,17-metheno-3,7-nitrilo-dinaphtho[2,1-*j*:1′,2′-*s*]-[1,9]dioxacycloeicosin-12,18-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



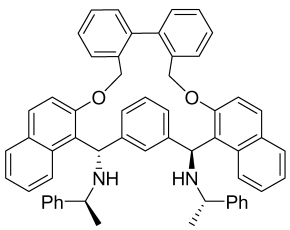
$[\alpha]_D^{20} = -2.1$ (*c* 0.63, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{52}H_{46}N_2O_2$

(9*S*,15*S*)-*N*9,*N*15-Bis[(1*S*)-1-phenylethyl]-{2*H*,5*H*,9*H*,15*H*-10,14-metheno-benzo[*c*]-dinaphtho[2,1-*g*: 1′,2′-*p*][1,5]dioxacycloheptadecin-9,15-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



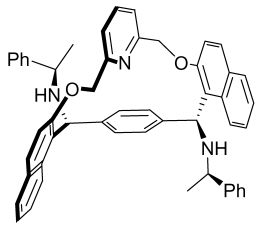
$[\alpha]_D^{20} = -62.4$ (*c* 0.90, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{58}H_{50}N_2O_2$

(11*S*,17*S*)-*N*11,*N*17-Bis[(1*S*)-1-phenylethyl]-{2*H*,7*H*,11*H*,17*H*-12,16-metheno-dibenzo[*c*:*e*]-dinaphtho[2,1-*i*:1′,2′-*r*] [1,8]dioxacyclononde-cin-11,17-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



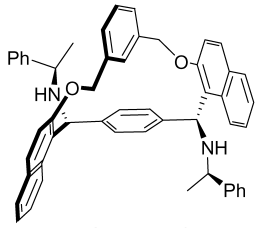
$[\alpha]_D^{20} = +247.7$ (*c* 0.26, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{51}H_{45}N_3O_2$

(12*S*,17*S*)-*N*12,*N*17-Bis[(1*S*)-1-phenylethyl]-{2*H*,8*H*,12*H*,17*H*-3,7-nitrilo-13,16-etheno-dinaphtho[2,1-*j*:1′,2′-*r*][1,9] dioxacyclononadecin-12,17-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



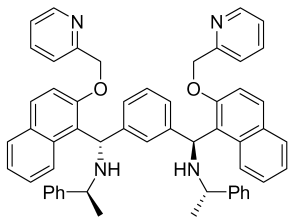
$[\alpha]_D^{20} = -62.2$ (*c* 0.36, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{52}H_{46}N_2O_2$

(12*S*,17*S*)-*N*12,*N*17-Bis[(1*S*)-1-phenylethyl]-{2*H*,8*H*,12*H*,17*H*-3,7-metheno-13,16-etheno-dinaphtho[2,1-*j*:1′,2′-*r*][1,9]dioxacyclononadecin-12,17-diamine}

Fengnian Ma, Xiumin Shen, Xin Ming, Junmei Wang, Jie Ou-Yang, Cong Zhang*

Tetrahedron: Asymmetry *19 (2008) 1576*



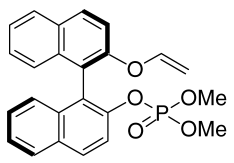
$[\alpha]_D^{20} = -54.1$ (*c* 0.61, THF)
Source of chirality: (*S*)-α-phenylethylamine
Absolute configuration: (*S*,*S*,*S*,*S*)

$C_{56}H_{50}N_4O_2$

(1*S*,1′*S*)-*N*,*N*′-((1*S*,1′*S*)-1,3-Phenylenebis((2-(pyridin-2-ylmethoxy)naphthalen-1-yl)methylene))bis(1-phenyl-ethanamine)

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



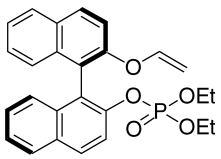
Ee = 94.8%
$[\alpha]_D^{23} = +29.5$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{24}H_{21}O_5P$

Dimethyl 2′-vinyloxy-1,1′-binaphthyl-2-yl phosphate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



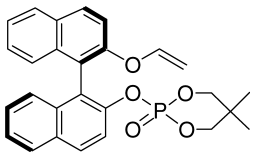
Ee = 98.5%
$[\alpha]_D^{28} = +39.6$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{26}H_{25}O_5P$

Diethyl 2′-vinyloxy-1,1′-binaphthyl-2-yl phosphate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



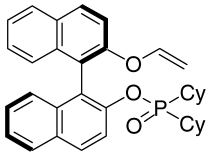
Ee = 41.0%
$[\alpha]_D^{28} = +2.7$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{27}H_{25}O_5P$

2-(5,5-Dimethyl-2-oxo-1,3,2-dioxaphosphorinan-2-yloxy)-2′-vinyloxy-1,1′-binaphthalene

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



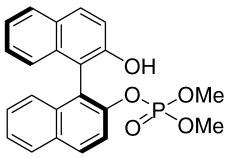
Ee = 27.4%
$[\alpha]_D^{28} = -0.6$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{34}H_{37}O_3P$

2′-Vinyloxy-1,1′-binaphthyl-2-yl dicyclohexylphosphinate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



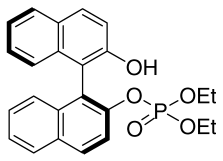
Ee = 73.0%
$[\alpha]_D^{24} = -25.2$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{22}H_{19}O_5P$

Dimethyl 2′-hydroxy-1,1′-binaphthyl-2-yl phosphate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



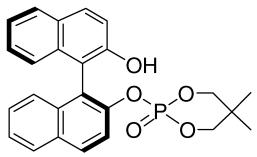
Ee = 62.7%
$[\alpha]_D^{25} = -32.2$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{24}H_{23}O_5P$

Diethyl 2′-hydroxy-1,1′-binaphthyl-2-yl phosphate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



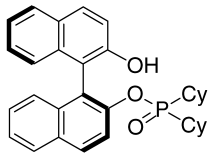
Ee = 63.8%
$[\alpha]_D^{25} = -8.5$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{25}H_{23}O_5P$

2-(5,5-Dimethyl-2-oxo-1,3,2-dioxaphosphorinan-2-yloxy)-2′-hydroxy-1,1′-binaphthalene

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



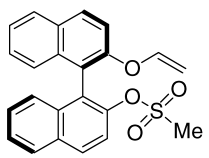
Ee = 55.2%
$[\alpha]_D^{25} = -26.9$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{32}H_{35}O_3P$

2′-Hydroxy-1,1′-binaphthyl-2-yl dicyclohexylphosphinate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



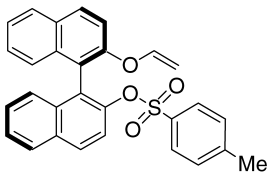
Ee = 40.7%
$[\alpha]_D^{28} = -4.4$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{23}H_{18}O_4S$

2′-Vinyloxy-1,1′-binaphthyl-2-yl methanesulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



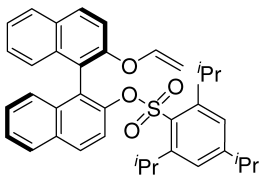
$C_{29}H_{22}O_4S$

2′-Vinyloxy-1,1′-binaphthyl-2-yl 4-toluenesulfonate

Ee = 45.6%
$[\alpha]_D^{28} = +4.26$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



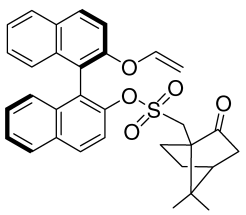
$C_{37}H_{38}O_4S$

2′-Vinyloxy-1,1′-binaphthyl-2-yl 2,4,6-triisopropylbenzenesulfonate

Ee = 99.0%
$[\alpha]_D^{23} = +28.0$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



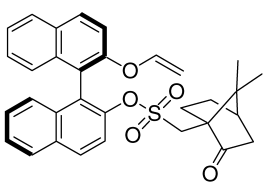
$C_{32}H_{30}O_5S$

(a*R*,*R*)-2′-Vinyloxy-1,1′-binaphthyl-2-yl camphorsulfonate

De = 54.8%
$[\alpha]_D^{23} = -11.8$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (a*R*,*R*)

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



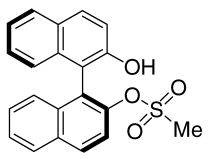
$C_{32}H_{30}O_5S$

(a*R*,*S*)-2′-Vinyloxy-1,1′-binaphthyl-2-yl camphorsulfonate

De = 95.0%
$[\alpha]_D^{23} = -2.9$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (a*R*,*S*)

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*

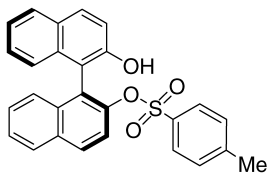


Ee = 46.7%
$[\alpha]_D^{24} = -13.7$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{21}H_{16}O_4S$
2′-Hydroxy-1,1′-binaphthyl-2-yl methanesulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*

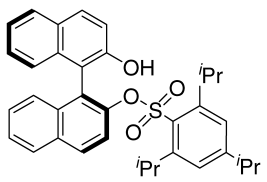


Ee = 51.4%
$[\alpha]_D^{25} = -25.9$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{27}H_{20}O_4S$
2′-Hydroxy-1,1′-binaphthyl-2-yl 4-toluenesulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*

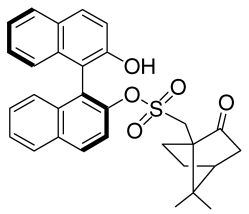


Ee = 75.7%
$[\alpha]_D^{23} = -54.6$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{35}H_{36}O_4S$
2′-Hydroxy-1,1′-binaphthyl-2-yl 2,4,6-triisopropylbenzenesulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*

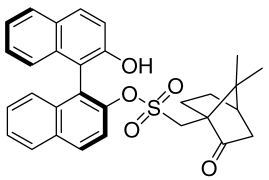


De = 59.5%
$[\alpha]_D^{23} = -22.1$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (a*S*,*R*)

$C_{30}H_{28}O_5S$
(a*S*,*R*)-2′-Hydroxy-1,1′-binaphthyl-2-yl camphorsulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



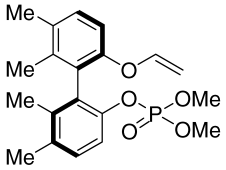
De = 58.9%
$[\alpha]_D^{23} = -36.0$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (a*S*,*S*)

$C_{30}H_{28}O_5S$

(a*S*,*S*)-2′-Hydroxy-1,1′-binaphthyl-2-yl camphorsulfonate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



Ee = 98.1%
$[\alpha]_D^{24} = +21.6$ (*c* 2.30, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{20}H_{25}O_5P$

Dimethyl 2′-vinyloxy-(5,5′,6,6′-tetramethyl-1,1′-biphenyl)-2-yl phosphate

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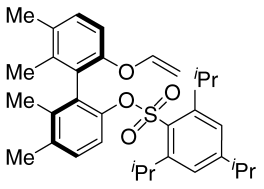
Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



Ee = 66.9%
$[\alpha]_D^{24} = -28.7$ (*c* 1.00, C_6H_6)
Source of chirality: kinetic resolution
Absolute configuration: (*R*)

$C_{33}H_{42}O_4S$

2′-Vinyloxy-(5,5′,6,6′-tetramethyl-1,1′-biphenyl)-2-yl 2,4,6-triisopropylbenzenesulfonate

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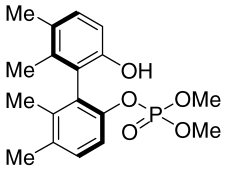
Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



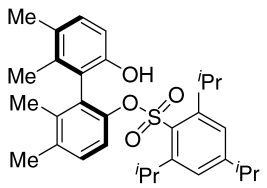
Ee = 56.6%
$[\alpha]_D^{25} = -18.4$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{18}H_{23}O_5P$

Dimethyl 2′-hydroxy-(5,5′,6,6′-tetramethyl-1,1′-biphenyl)-2-yl phosphate

Takeshi Sakuma, Eiji Yamamoto, Hiroshi Aoyama, Yasushi Obora, Yasushi Tsuji*, Makoto Tokunaga*

Tetrahedron: Asymmetry *19 (2008) 1593*



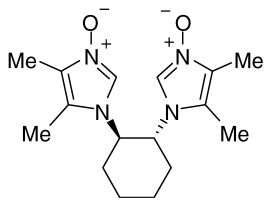
Ee = 83.0%
$[\alpha]_D^{24} = -48.3$ (*c* 1.00, $CHCl_3$)
Source of chirality: kinetic resolution
Absolute configuration: (*S*)

$C_{31}H_{40}O_4S$

2′-Hydroxy-5,5′,6,6′-tetramethyl-1,1′-biphenyl-2-yl 2,4,6-triisopropylbenzenesulfonate

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



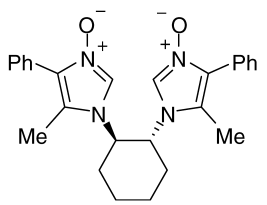
Ee = 100%
$[\alpha]_D^{20} = -267.6$ (*c* 0.98, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

$C_{16}H_{24}N_4O_2$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(4,5-dimethylimidazole)-3,3′-dioxide

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



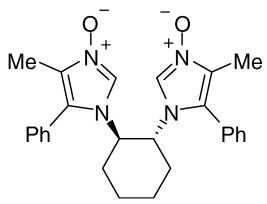
Ee = 100%
$[\alpha]_D^{20} = -136.3$ (*c* 0.82, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

$C_{26}H_{28}N_4O_2$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(5-methyl-4-phenylimidazo-le)-3,3′-dioxide

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



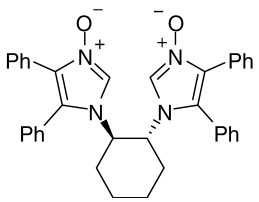
Ee = 100%
$[\alpha]_D^{20} = -127.0$ (*c* 0.84, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

$C_{26}H_{28}N_4O_2$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(4-methyl-5-phenylimidazole)-3,3′-dioxide

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



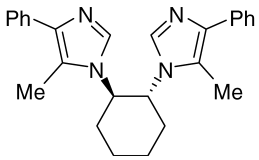
$C_{36}H_{32}N_4O_2$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(4,5-diphenylimidazole)-3,3′-dioxide

Ee = 100%
$[\alpha]_D^{20} = +6.0$ (*c* 1.02, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



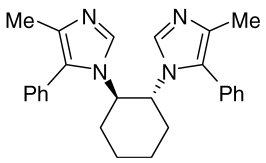
$C_{26}H_{28}N_4$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(5-methyl-4-phenylimidazole)

Ee = 100%
$[\alpha]_D^{20} = +62.5$ (*c* 1.00, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



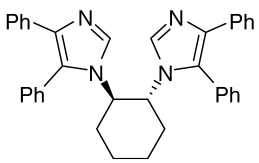
$C_{26}H_{28}N_4$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(4-methyl-5-phenylimidazole)

Ee = 100%
$[\alpha]_D^{20} = -29.8$ (*c* 1.02, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

Paulina Mucha, Grzegorz Mlostoń,* Marcin Jasiński, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry *19 (2008) 1600*



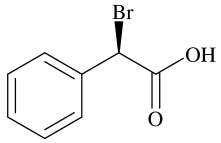
$C_{36}H_{32}N_4$

(*R*,*R*)-*trans*-1,1′-(Cyclohexane-1,2-diyl)bis(4,5-diphenylimidazole)

Ee = 100%
$[\alpha]_D^{20} = +72.3$ (*c* 0.94, MeOH)
Source of chirality: enantiomerically pure substrate
Absolute configuration: (1*R*,2*R*)

Miguel Cancino, Philippe Bauchart, Georgina Sandoval, Jean-Marc Nicaud, Isabelle André, Valérie Dossat, Alain Marty*

Tetrahedron: Asymmetry *19 (2008) 1608*



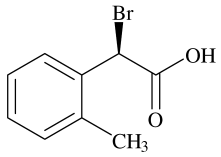
$C_8H_7BrO_2$

(2*R*)-Bromo-phenylacetic acid

Ee = 97% (by Chiral HPLC)
$[\alpha]_D^{20} = -92$ (*c* 0.5, diethyl ether)
Absolute configuration: (2*R*)

Miguel Cancino, Philippe Bauchart, Georgina Sandoval, Jean-Marc Nicaud, Isabelle André, Valérie Dossat, Alain Marty*

Tetrahedron: Asymmetry *19 (2008) 1608*



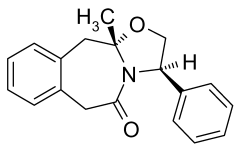
$C_9H_9BrO_2$

(2*R*)-Bromo-*o*-tolylacetic acid

Ee = 96% (by Chiral HPLC)
$[\alpha]_D^{20} = -3.6$ (*c* 0.1, diethyl ether)
Absolute configuration: (2*R*)

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



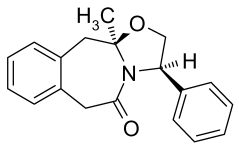
$C_{19}H_{19}NO_2$

(3*R*,11a*S*)-11a-Methyl-3-phenyl-2,3,11,11a-tetrahydro[1,3]oxazolo[2,3-*b*][3]benzazepin-5(6*H*)-one

De >99%
$[\alpha]_D = -56.3$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (3*R*,11a*S*)

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



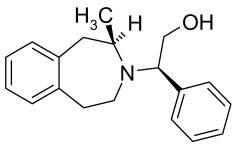
$C_{19}H_{19}NO_2$

(3*R*,11a*R*)-11a-Methyl-3-phenyl-2,3,11,11a-tetrahydro[1,3]oxazolo[2,3-*b*][3]benzazepin-5(6*H*)-one

De >99%
$[\alpha]_D = +137$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (3*R*,11a*R*)

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



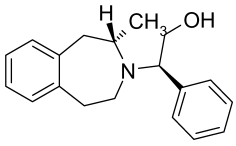
De >98%
$[\alpha]_D = -48.2$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (*R*,*R*)

$C_{19}H_{23}NO$

(*R*)-2-[(*R*)-2-Methyl-2,3,4,5-tetrahydro-1*H*-3-benzazepin-3-yl]-2-phenylethanol

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



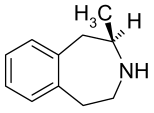
De >99%
$[\alpha]_D = +5.0$
Source of chirality: (*R*)-phenylglycinol

$C_{19}H_{23}NO$

(*R*)-2-[(*S*)-2-Methyl-2,3,4,5-tetrahydro-1*H*-3-benzazepin-3-yl]-2-phenylethanol

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



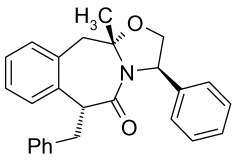
Ee >98%
$[\alpha]_D = +12.6$
Source of chirality: (*R*)-phenylglycinol

$C_{11}H_{15}N$

(*R*)-2-Methyl-2,3,4,5-tetrahydro-1*H*-3-benzazepine

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



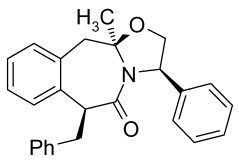
De >99%
$[\alpha]_D = -103$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (3*R*,6*R*,11a*S*)

$C_{26}H_{25}NO_2$

(3*R*,6*R*,11a*S*)-6-Benzyl-11a-methyl-3-phenyl-2,3,11,11a-tetrahydro[1,3]oxazolo[2,3-*b*][3]benzazepin-5(6*H*)-one

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



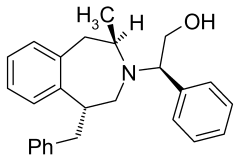
De>99%
$[\alpha]_D = +40.3$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (3*R*,6*S*,11a*R*)

$C_{26}H_{25}NO_2$

(3*R*,6*S*,11a*R*)-6-Benzyl-11a-methyl-3-phenyl-2,3,11,11a-tetrahydro[1,3]oxazolo[2,3-*b*][3]benzazepin-5(6*H*)-one

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



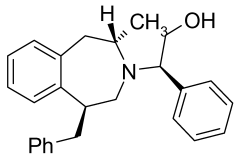
De >99%
$[\alpha]_D = -8.40$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (*R*,1*R*,4*R*)

$C_{26}H_{29}NO$

(*R*)-2-[(1*R*,4*R*)-1-Benzyl-4-methyl-2,3,4,5-tetrahydro-1*H*-3-benzazepin-3-yl]-2-phenylethanol

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



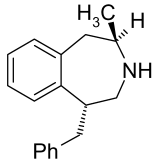
De 99%
$[\alpha]_D = +77.0$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (*R*,1*S*,4*S*)

$C_{26}H_{29}NO$

(*R*)-2-[(1*S*,4*S*)-1-Benzyl-4-ethyl-2,3,4,5-tetrahydro-1*H*-3-benzazepin-3-yl]-2-phenylethanol

S. Masood Husain, Roland Fröhlich, Bernhard Wünsch*

Tetrahedron: Asymmetry *19 (2008) 1613*



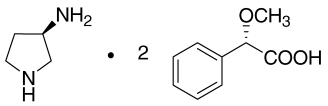
Ee >99%
$[\alpha]_D = +25.4$
Source of chirality: (*R*)-phenylglycinol
Absolute configuration: (1*R*,4*R*)

$C_{18}H_{21}N$

(1*R*,4*R*)-1-Benzyl-4-methyl-2,3,4,5-tetrahydro-1*H*-3-benzazepine

Rumiko Sakurai,* Atsushi Yuzawa, Kenichi Sakai

Tetrahedron: Asymmetry *19 (2008) 1622*



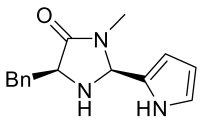
$C_{22}H_{30}N_2O_6$

(*R*)-3-Aminopyrrolidine: (*S*)-methoxy-2-phenylacetic acid, 1:2

$[\alpha]_D^{20} = +91.8$ (*c* 0.5, H_2O)
De 99.5%
Source of chirality: resolution
Absolute configuration: (*R*,*S*)

Sung-Gon Kim*, Tae-Ho Park

Tetrahedron: Asymmetry *19 (2008) 1626*



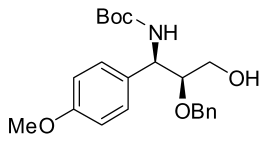
$C_{15}H_{17}N_3O$

(2*S*,5*S*)-5-Benzyl-3-methyl-2-pyrrole-imidazolidine-4-one

Ee = 100%
$[\alpha]_D^{25} = -145.1$ (*c* 0.7, $CHCl_3$)
Source of chirality: (*S*)-phenylalanine methyl amide
Absolute configuration: (2*S*,5*S*)

Sung-Gon Kim*, Tae-Ho Park

Tetrahedron: Asymmetry *19 (2008) 1626*



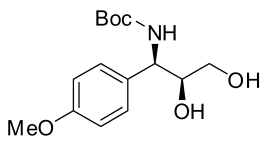
$C_{22}H_{29}NO_5$

(1*R*,2*S*)-[2-Benzyloxy-3-hydroxy-1-(4-methoxyphenyl)propyl]-carbamic acid *tert*-butyl ester

Ee = 94%
$[\alpha]_D^{23} = -18.6$ (*c* 0.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,2*S*)

Sung-Gon Kim*, Tae-Ho Park

Tetrahedron: Asymmetry *19 (2008) 1626*



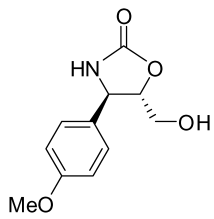
$C_{15}H_{23}NO_5$

(1*R*,2*S*)-[2,3-Dihydroxy-1-(4-methoxyphenyl)-propyl]-carbamic acid *tert*-butyl ester

Ee = 94%
$[\alpha]_D^{23} = -36.1$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,2*S*)

Sung-Gon Kim*, Tae-Ho Park

Tetrahedron: Asymmetry *19 (2008) 1626*



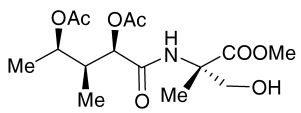
$C_{11}H_{13}NO_4$

(4*R*,5*S*)-5-(Hydroxymethyl)-4-(4-methoxyphenyl)-oxazolidin-2-one

Ee = 94%
$[\alpha]_D^{23} = +32.8$ (*c* 0.6, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,5*S*)

Hai-Fei Wang, Guo-Hua Ma, Shao-Bo Yang, Rong-Gang Han, Peng-Fei Xu*

Tetrahedron: Asymmetry *19 (2008) 1630*



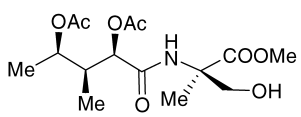
$C_{15}H_{25}NO_8$

Methyl *N*-[(2*R*,3*S*,4*R*)-2,4-diacetyloxy-3-methylvaleryl]-2-methyl-L-serinate

$[\alpha]_D^{15} = +34.0$ (*c* 0.48, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*,4*R*,*S*)

Hai-Fei Wang, Guo-Hua Ma, Shao-Bo Yang, Rong-Gang Han, Peng-Fei Xu*

Tetrahedron: Asymmetry *19 (2008) 1630*



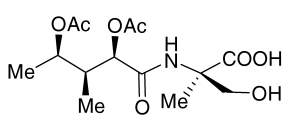
$C_{15}H_{25}NO_8$

Methyl *N*-[(2*R*,3*S*,4*R*)-2,4-diacetyloxy-3-methylvaleryl]-2-methyl-D-serinate

$[\alpha]_D^{15} = +13.0$ (*c* 0.62, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*,4*R*,*R*)

Hai-Fei Wang, Guo-Hua Ma, Shao-Bo Yang, Rong-Gang Han, Peng-Fei Xu*

Tetrahedron: Asymmetry *19 (2008) 1630*



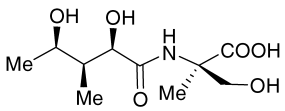
$C_{10}H_{19}NO_6$

(+)-Conagenin

$[\alpha]_D^{23} = +50.0$ (*c* 0.45, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*,4*R*,*S*)

Hai-Fei Wang, Guo-Hua Ma, Shao-Bo Yang, Rong-Gang Han, Peng-Fei Xu*

Tetrahedron: Asymmetry *19 (2008) 1630*



$C_{10}H_{19}NO_6$

2-*epi*-Conagenin

$[\alpha]_D^{23} = +24.0$ (*c* 0.51, MeOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*S*,4*R*,*R*)