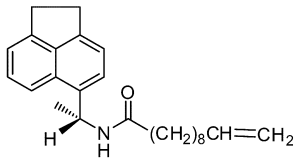
Yongmei Xie, Yiwen Zhang, Wenli Zheng, Chao Fu and Hang Song *

Tetrahedron: Asymmetry *20 (2009) 175*



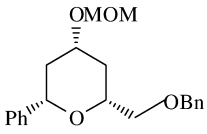
$[\alpha]_D^{30} = +46.7$ (*c* 1.0, C_2H_5OH)
Absolute configuration: (*R*)

$C_{25}H_{33}NO$

(*R*)-(+)-5-(10-Undecen-ethylamido)-acenaphthene

Gowravaram Sabitha *, Narjis Fatima, Peddabuddi Gopal, C. Nagendra Reddy, Jhillu S. Yadav

Tetrahedron: Asymmetry *20 (2009) 184*



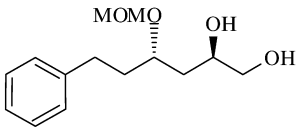
$[\alpha]_D^{25} = -13$ (*c* 0.3, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,4*R*,6*S*)

$C_{21}H_{24}O_4$

(2*R*,4*R*,6*S*)-2-[(Benzyloxy)methyl]-4-(methoxymethoxy)-6-phenyltetrahydro-2*H*-pyran

Gowravaram Sabitha *, Narjis Fatima, Peddabuddi Gopal, C. Nagendra Reddy, Jhillu S. Yadav

Tetrahedron: Asymmetry *20 (2009) 184*



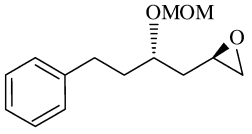
$[\alpha]_D^{25} = +41$ (*c* 2.4, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,4*S*)

$C_{14}H_{22}O_4$

(2*S*,4*S*)-4-(Ethylperoxy)-6-phenylhexane-1,2-diol

Gowravaram Sabitha *, Narjis Fatima, Peddabuddi Gopal, C. Nagendra Reddy, Jhillu S. Yadav

Tetrahedron: Asymmetry *20 (2009) 184*



$[\alpha]_D^{25} = +12.3$ (*c* 2.1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*)-2-(2*S*)

$C_{14}H_{20}O_3$

(2*R*)-2-[(2*S*)-2-(Methoxymethoxy)-4-phenylbutyl]oxetane

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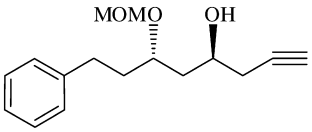
Tetrahedron: Asymmetry *20 (2009) 184*



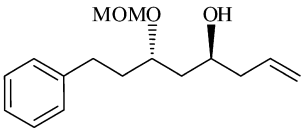
$[\alpha]_D = +40.7$ (*c* 1.95, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,6*S*)

$C_{14}H_{22}O_3$

(4*R*,6*S*)-6-(Methoxymethoxy)-8-phenyl-1-octyn-4-ol

Gowravaram Sabitha *, Narjis Fatima, Peddabuddi Gopal, C. Nagendra Reddy, Jhillu S. Yadav

Tetrahedron: Asymmetry *20 (2009) 184*



$[\alpha]_D^{25} = +35.5$ (*c* 1.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,6*S*)

$C_{16}H_{24}O_3$

(4*R*,6*S*)-6-(Ethylperoxy)-8-phenyl-1-octen-4-ol (**16**)

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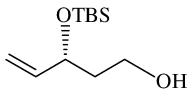

$[\alpha]_D$ = +1.9 (*c* 1.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3*S*)

$C_{11}H_{24}O_2Si$

(3*S*)-3-[1-(*tert*-Butyl)-1,1-dimethylsilyl]oxy-4-penten-1-ol

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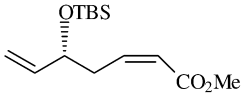
Tetrahedron: Asymmetry *20 (2009) 184*



$C_{14}H_{20}O_3Si$

Methyl (2*Z*,5*S*)-5-[1-(*tert*-butyl)-1,1-dimethylsilyl]oxy-2,6-heptadienoate

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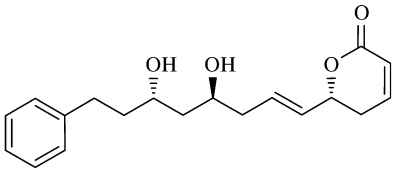

$[\alpha]_D = +37.8$ (*c* 0.5, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (6*R*)-6-[(*E*,4*S*,6*S*)

$C_{19}H_{24}O_4$

(6*R*)-6-[(*E*,4*S*,6*S*)-4,6-Dihydroxy-8-phenyl-1-octenyl]-5,6-dihydro-2*H*-2-pyranone

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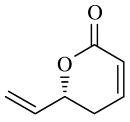
C. Nagendra Reddy, Jhillu S. Yadav

Tetrahedron: Asymmetry *20 (2009) 184*



$[\alpha]_D^{25} = +95.2$ (*c* 0.85, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (6*R*)

$C_7H_8O_2$

(6*R*)-6-Vinyl-5,6-dihydro-2*H*-2-pyranone

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C. Nagendra Reddy, Jhillu S. Yadav

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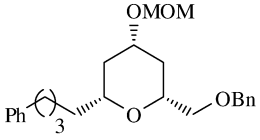

$[\alpha]_D^{25} = +5.7$ (*c* 1.02, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,4*R*,6*R*)

$C_{24}H_{34}O_4$

(2*R*,4*R*,6*R*)-2-[(Benzyloxy)methyl]-4-(methoxymethoxy)-6-(4-phenylbutyl)tetrahydro-2*H*-pyran

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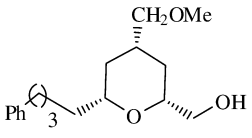

$[\alpha]_D^{25} = +3.0$ (*c* 0.32, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,4*R*,6*R*)

$C_{18}H_{28}O_4$

[(2*R*,4*R*,6*R*)-4-(Methoxymethoxy)-6-(4-phenylbutyl)tetrahydro-2*H*-2-pyranyl]methanol

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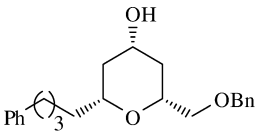

$[\alpha]_D = +10.0$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,4*R*,6*R*)

$C_{23}H_{30}O_3$

(2*R*,4*R*,6*R*)-2-[(Benzyloxy)methyl]-6-(4-phenylbutyl)tetrahydro-2*H*-4-pyranol

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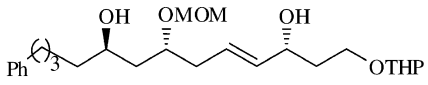

$[\alpha]_D^{25} = -18.0$ (c 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3*R*,4*E*,7*R*,9*R*)

$C_{26}H_{42}O_6$

(3*R*,4*E*,7*R*,9*R*)-7-(Methoxymethoxy)-13-phenyl-1-(tetrahydro-2*H*-2-pyranyloxy)-4-tridecene-3,9-diol

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C. Nagendra Reddy, Jhillu S. Yadav

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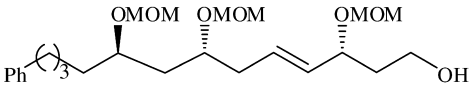

$[\alpha]_D^{25} = +18.5$ (c 1.3, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3*R*,4*E*,7*R*,9*R*)

$C_{25}H_{42}O_7$

(3*R*,4*E*,7*R*,9*R*)-3,7,9-Tri(methoxymethoxy)-13-phenyl-4-tridecen-1-ol

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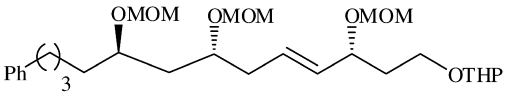

$[\alpha]_D^{25} = +9.3$ (c 1.2, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (3*R*,4*E*,7*R*,9*R*)

$C_{30}H_{50}O_8$

2-[(3*R*,4*E*,7*R*,9*R*)-3,7,9-Tri(methoxymethoxy)-13-phenyl-4-tridecenyl]oxytetrahydro-2*H*-pyran

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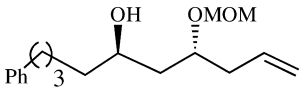

$[\alpha]_D^{25} = -30.5$ (*c* 1.4, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (5*R*,7*R*)

$C_{18}H_{28}O_3$

(5*R*,7*R*)-7-(Methoxymethoxy)-1-phenyl-9-decen-5-ol

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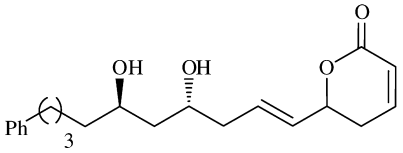

$[\alpha]_D^{25} = +52.5$ (*c* 0.25, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (6*R*)-6-[(*E*,4*R*,6*R*)

$C_{21}H_{28}O_4$

(6*R*)-6-[(*E*,4*R*,6*R*)-4,6-Dihydroxy-10-phenyl-1-decenyl]-5,6-dihydro-2*H*-2-pyranone

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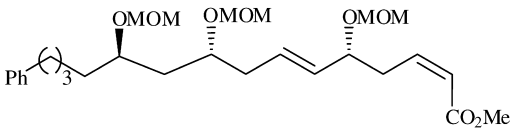
Tetrahedron: Asymmetry *20 (2009) 184*



$[\alpha]_D^{25} = +15.0$ (*c* 1.05, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*Z*,5*R*,6*E*,9*R*,11*R*)

$C_{28}H_{44}O_8$

Methyl(2*Z*,5*R*,6*E*,9*R*,11*R*)-5,9,11-tri(methoxymethoxy)-15-phenyl-2,6-pentadecadienoate

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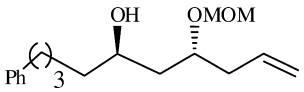
Tetrahedron: Asymmetry *20 (2009) 184*



$[\alpha]_D^{25} = -30.5$ (*c* 1.4, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (5*R*,7*R*)

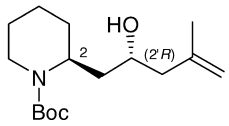
$C_{18}H_{28}O_3$

(5*R*,7*R*)-7-(Methoxymethoxy)-1-phenyl-9-decen-5-ol

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = -34$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)



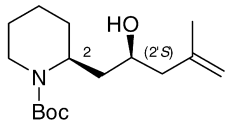
$C_{16}H_{29}NO_3$

(*S*)-2-((*R*)-2-Hydroxy-4-methylpent-4-enyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = -47$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*S*)



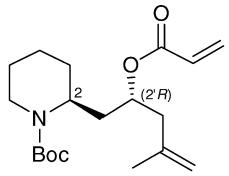
$C_{16}H_{29}NO_3$

(*S*)-2-((*S*)-2-Hydroxy-4-methylpent-4-enyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +44$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)



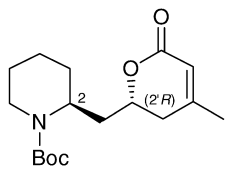
$C_{19}H_{31}NO_4$

(*S*)-2-((*R*)-2-Acryloyloxy-4-methyl-pent-4-enyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +64$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)

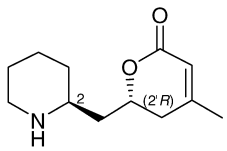


$C_{17}H_{27}NO_4$

(*S*)-2-((*R*)-4-Methyl-6-oxo-3,6-dihydro-2*H*-pyran-2-ylmethyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



$[\alpha]_D = +54$ (*c* 1, CHCl3)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)

$C_{12}H_{19}NO_2$

(*S*)-2-((*R*)-4-Methyl-6-oxo-3,6-dihydro-2*H*-pyran-2-ylmethyl)piperidine

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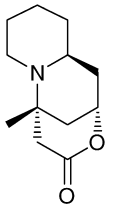
Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



$[\alpha]_D = +3$ (*c* 0.26, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (1*R*,7*S*,9*S*)

$C_{12}H_{19}NO_2$

(1*R*,7*S*,9*S*)-1-Methyl-10-oxa-2-azatricyclo[7.3.1.02,7]tridecan-11-one

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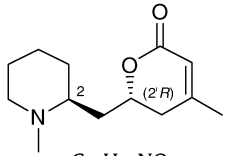
Tetrahedron: Asymmetry *20 (2009) 192*



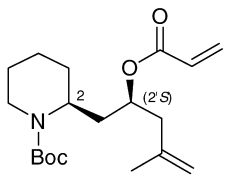
$[\alpha]_D = +37$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)

$C_{13}H_{21}NO_2$

(+)-Dumetorine

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



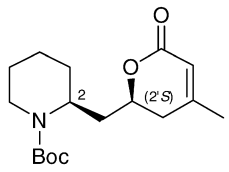
$[\alpha]_D = +51$ (*c* 0.9, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*S*)

$C_{19}H_{31}NO_4$

(*S*)-2-((*S*)-2-Acryloyloxy-4-methylpent-4-enyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



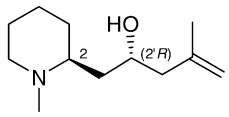
$[\alpha]_D = +58$ (c 0.8, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*S*)

$C_{17}H_{27}NO_4$

(*S*)-2-((*S*)-4-Methyl-6-oxo-3,6-dihydro-2*H*-pyran-2-ylmethyl)piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



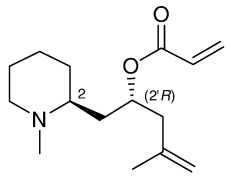
$[\alpha]_D = -27$ (c 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)

$C_{12}H_{23}NO$

(*S*)-2-((*R*)-2-Hydroxy-4-methylpent-4-enyl)piperidine-1-methyl

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



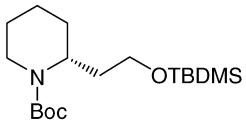
$[\alpha]_D = -26$ (c 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,2′*R*)

$C_{15}H_{25}NO_2$

(*S*)-2-((*R*)-2-Acryloyloxy-4-methylpent-4-enyl)piperidine-1-methyl

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



$[\alpha]_D = +17.4$ (c 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*)

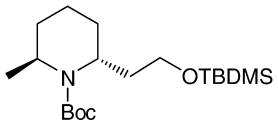
$C_{18}H_{37}NO_3Si$

(*R*)-2-[2-(*tert*-Butyldimethylsilanyloxy)ethyl]piperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +14.8$ (*c* 1, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*,6*S*)



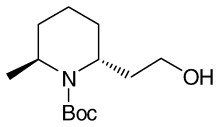
$C_{19}H_{39}NO_3Si$

(2*R*,6*S*)-2-[2-(*tert*-Butyldimethylsilanyloxy)ethyl]-6-methylpiperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +32.7$ (*c* 1.15, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*,6*S*)



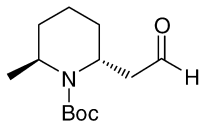
$C_{13}H_{25}NO_3Si$

(2*R*,6*S*)-2-(2-Hydroxyethyl)-6-methylpiperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +17.5$ (*c* 1.15, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*,6*S*)



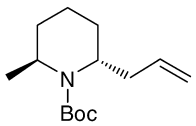
$C_{13}H_{23}NO_3$

(2*R*,6*S*)-2-(2-Oxoethyl)-6-methylpiperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*

$[\alpha]_D = +23.7$ (*c* 1.5, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*,6*S*)

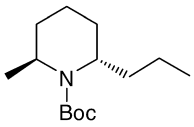


$C_{14}H_{25}NO_2$

(2*R*,6*S*)-2-Allyl-6-methylpiperidine-1-carboxylic acid *tert*-butyl ester

Daniele Passarella *, Sergio Riva, Gabriele Grieco, Francesco Cavallo, Begoña Checa, Federica Arioli, Elena Riva, Daniela Comi, Bruno Danieli

Tetrahedron: Asymmetry *20 (2009) 192*



$C_{14}H_{27}NO_2$

(2*S*,6*S*)-2-Propyl-6-methylpiperidine-1-carboxylic acid *tert*-butyl ester

$[\alpha]_D = +40.4$ (*c* 0.25, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*S*,6*S*)

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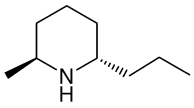

$C_9H_{19}N$

(−)-Epidihydropinidine

$[\alpha]_D = -2.7$ (*c* 0.2, $CHCl_3$)
Source of chirality: Enzymatic resolution
Absolute configuration: (2*R*,6*S*)

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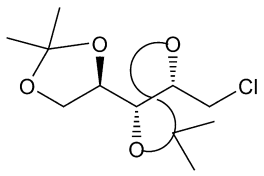

$C_{11}H_{19}ClO_4$

1,2:3,4-Di-*O*-isopropylidene-(2*R*,3*R*,4*S*)-5-chloropentane-1,2,3,4-tetraol

$[\alpha_D^{25}] = +13.2$ (*c* 1, $CHCl_3$)
Source of chirality: D-mannitol
Absolute configuration: (2*R*,3*R*,4*S*)

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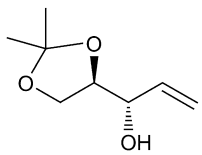
Tetrahedron: Asymmetry *20 (2009) 198*



$C_8H_{14}O_3$

(1*S*)-1-[(4*R*)-2,2-dimethyl-1,3-dioxolan-4-yl]-2-propen-1-ol

$[\alpha]_D^{25} = +2.8$ (*c* 1, $CHCl_3$)
Source of chirality: D-mannitol
Absolute configuration: (1*S*,4*R*)

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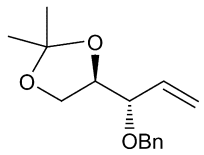

$[\alpha]_D^{25} = +49.2$ (*c* 1 $CHCl_3$)
Source of chirality: D-mannitol
Absolute configuration: (1*S*,4*R*)

$C_{15}H_{20}O_3$

(4*R*)-4-[(1*S*)-1-(benzyloxy)-2-propenyl]-2,2-dimethyl-1,3-dioxolane

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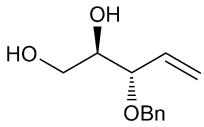
Tetrahedron: Asymmetry *20 (2009) 198*



$[\alpha]_D^{25} = +55$ (*c* 1 $CHCl_3$)
Source of chirality: D-mannitol
Absolute configuration: (2*R*,3*S*)

$C_{12}H_{16}O_3$

(2*R*,3*S*)-3-(benzyloxy)-4-pentene-1,2-diol

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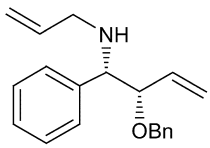
Tetrahedron: Asymmetry *20 (2009) 198*



$[\alpha]_D^{25} = +51$ (*c* 1 $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,2*S*)

$C_{20}H_{23}NO$

N-allyl-*N*-[(1*S*,2*S*)-2-(benzyloxy)-phenyl-3-butenyl] amine

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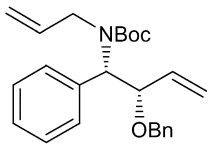
Tetrahedron: Asymmetry *20 (2009) 198*



$[\alpha]_D^{25} = +46$ (*c* 1 $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,2*S*)

$C_{25}H_{31}NO_3$

tert-Butyl-*N*-allyl-*N*-[(1*S*,2*S*)-2-(benzyloxy)-1-phenyl-3-butenyl] carbamate

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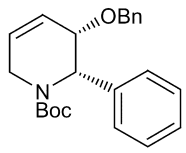

$C_{23}H_{27}NO_3$

tert-Butyl (2*S*,3*S*)-3-(benzyloxy)-2-phenyl 1,2,3,6-tetrahydro-1-pyridine carboxylate

$[\alpha]_D^{25} = +44$ (*c* 1, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*S*)

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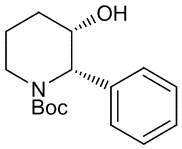
Tetrahedron: Asymmetry *20 (2009) 198*



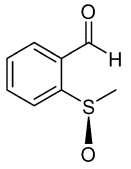
$C_{16}H_{23}NO_3$

(2*S*,3*S*)-3-Hydroxy-2-phenyl-piperidine-1-carboxylic acid *tert*-butyl ester

$[\alpha]_D^{25} = +39$ (*c* 1 $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*S*)

Antonio Massa *, Maria Rosaria Acocella, Vincenzo De Sio, Rosaria Villano, Arrigo Scettri *

Tetrahedron: Asymmetry *20 (2009) 202*



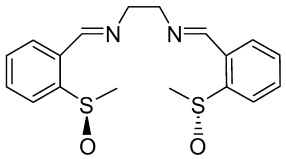
$C_8H_8O_2S$

(*R*)-(+)-2-(Methylsulfinyl)benzaldehyde

Ee = 96%
$[\alpha]_D = +145.8$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*)

Antonio Massa *, Maria Rosaria Acocella, Vincenzo De Sio, Rosaria Villano, Arrigo Scettri *

Tetrahedron: Asymmetry *20 (2009) 202*



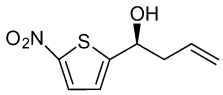
$C_{18}H_{20}N_2O_2S_2$

(*R*,*R*)-(+)-N_1,N_2-Bis-(2-(methylsulfinyl)-benzylidene)-ethane-1,2-diamine

Ee = 96%
$[\alpha]_D = +329.0$ (*c* 0.4, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*R*,*R*)

Antonio Massa *, Maria Rosaria Acocella, Vincenzo De Sio, Rosaria Villano, Arrigo Scettri *

Tetrahedron: Asymmetry *20 (2009) 202*



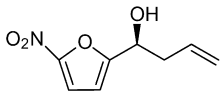
$C_8H_9NO_3S$

(5-Nitro)-2-thiophenyl-but-3-ene-1-ol

Ee = 70%
$[\alpha]_D = -6$ (*c* 3.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*)

Antonio Massa *, Maria Rosaria Acocella, Vincenzo De Sio, Rosaria Villano, Arrigo Scettri *

Tetrahedron: Asymmetry *20 (2009) 202*



$C_8H_9NO_4$

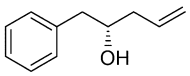
(5-Nitro)-2-Furyl-but-3-en-1-ol

Ee = 66%
$[\alpha]_D = -62$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (*S*)

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +12.2$ (*c* 1.84, $CHCl_3$)
Source of chirality = lipase catalyzed resolution
Absolute configuration: (*S*)



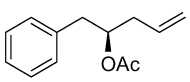
$C_{11}H_{14}O$

(*S*)-1-Phenylpent-4-ene-2-ol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = -17.5$ (*c* 1.16, $CHCl_3$)
Source of chirality = lipase catalyzed resolution
Absolute configuration: (*R*)



$C_{13}H_{16}O_2$

(*R*)-2-Acetoxy-1-phenylpent-4-ene

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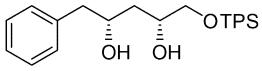
Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = -4.0$ (*c* 1.26, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)



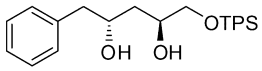
$C_{37}H_{34}O_3Si$

(2*R*,4*R*)-1-*tert*-Butyldiphenylsiloxy 5-phenylpentane-2,4-diol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +16.0$ (*c* 1.52, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)



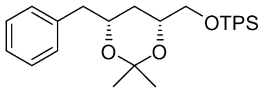
$C_{37}H_{34}O_3Si$

(2*S*,4*R*)-1-*tert*-Butyldiphenylsiloxy5-phenylpentane-2,4-diol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = -5.0$ (*c* 1.28, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)



$C_{40}H_{38}O_3Si$

(2*R*,4*R*)-1-*tert*-Butyldiphenylsiloxy 2,4-isopropanedioxypentane

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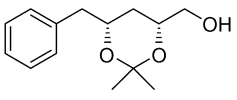
Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = -9.8$ (*c* 4.86, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)



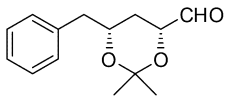
$C_{14}H_{20}O_3$

(2*R*,4*R*)-2,4-Isopropanedioxypentan-1-ol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = -6.8$ (*c* 1.26, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)

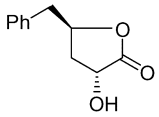


$C_{14}H_{18}O_3$
(2*R*,4*R*)-2,4-Isopropanedioxypentanal

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +38.6$ (*c* 0.702, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (3*R*,5*R*)

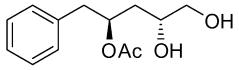


$C_{11}H_{12}O_3$
(3*R*,5*R*)-3-Hydroxy-5-phenylmethyl dihydrofuran-2-one

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +14.8$ (*c* 0.88, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*R*)

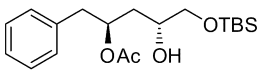


$C_{13}H_{18}O_4$
(2*R*,4*S*)-4-Acetoxy-5-phenylpentane-1,2-diol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +10.4$ (*c* 1.18, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*S*)

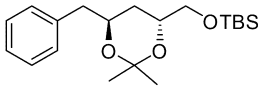


$C_{19}H_{32}O_4Si$
(2*R*,4*S*)-1-*tert*-Butyldimethylsiloxy 2-hydroxy-4-acetoxy-5-phenylpentane

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +7.5$ (*c* 0.860, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*S*)



$C_{20}H_{34}O_3Si$

(2*R*,4*S*)-1-*tert*-Butyldimethylsiloxy-2,4-isopropanedioxy-5-phenylpentane

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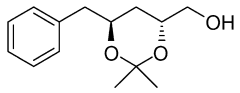
Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +5.2$ (*c* 0.882, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*S*)



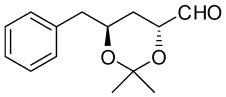
$C_{14}H_{20}O_3$

(2*R*,4*S*)-2,4-Isopropanedioxy-5-phenylpentan-1-ol

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +5.9$ (*c* 1.04, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (2*R*,4*S*)



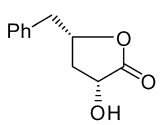
$C_{14}H_{18}O_3$

(2*R*,4*S*)-2,4-Isopropanedioxy-5-phenylpentanal

Abha N. Kumar, Suchitra Bhatt, Subrata Chattopadhyay *

Tetrahedron: Asymmetry *20 (2009) 205*

$[\alpha]_D^{22} = +8.9$ (*c* 0.648, $CHCl_3$)
Source of chirality = lipase catalyzed resolution and asymmetric dihydroxylation
Absolute configuration: (3*R*,5*S*)

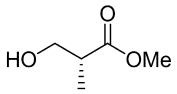


$C_{11}H_{12}O_3$

(3*R*,5*S*)-3-Hydroxy-5-phenylmethyl dihydrofuran-2-one

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



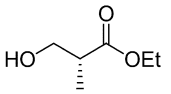
$C_5H_{10}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid methyl ester

Ee = 96.7%
$[\alpha]_D^{20} = -22.8$ (*c* 0.85, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



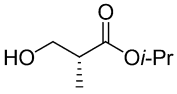
$C_6H_{12}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid ethyl ester

Ee = 95.7%
$[\alpha]_D^{20} = -22.2$ (*c* 1.0, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



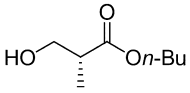
$C_7H_{14}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid *i*-propyl ester

Ee = 90.5%
$[\alpha]_D^{20} = -16.0$ (*c* 1.2, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



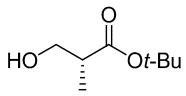
$C_8H_{16}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid *n*-butyl ester

Ee = 95.3%
$[\alpha]_D^{20} = -14.8$ (*c* 0.9, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



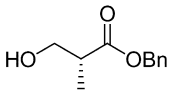
$C_8H_{16}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid *t*-butyl ester

Ee = 79.1%
$[\alpha]_D^{20} = -11.6$ (*c* 1.15, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Min Qiu, Dao-Yong Wang, Xiang-Ping Hu *, Jia-Di Huang, Sai-Bo Yu, Jun Deng, Zheng-Chao Duan, Zhuo Zheng *

Tetrahedron: Asymmetry *20 (2009) 210*



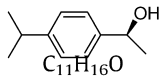
$C_{11}H_{14}O_3$

(*R*)-3-Hydroxy-2-methylpropionic acid benzyl ester

Ee = 90.1%
$[\alpha]_D^{20} = -24.2$ (*c* 0.85, MeOH)
Source of chirality: asymmetric catalysis
Absolute configuration: (*R*)

Gizelle A.B. Vieira, Telma L.G. Lemos, Marcos Carlos de Mattos *, Maria da Conceicão F. de Oliveira, Vânia M.M. Melo, Gonzalo de Gonzalo, Vicente Gotor-Fernández, Vicente Gotor *

Tetrahedron: Asymmetry *20 (2009) 214*



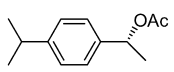
$C_{11}H_{16}O$

(+)-1-(*S*)-(4-Isopropylphenyl)ethanol

Ee >99% (HPLC, Chiralpak IA)
$[\alpha]_D^{20} = +82.2$ (*c* 1.2, $CHCl_3$)
Source of chirality: enzymatic kinetic resolution
Absolute configuration: (*S*)

Gizelle A.B. Vieira, Telma L.G. Lemos, Marcos Carlos de Mattos *, Maria da Conceicão F. de Oliveira, Vânia M.M. Melo, Gonzalo de Gonzalo, Vicente Gotor-Fernández, Vicente Gotor *

Tetrahedron: Asymmetry *20 (2009) 214*



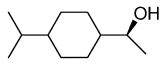
$C_{13}H_{18}O_2$

(+)-1-(*R*)-(4-Isopropylphenyl)ethyl acetate

Ee 98% (HPLC, Chiralpak IA)
$[\alpha]_D^{20} = +78.5$ (*c* 1.2, CH_2Cl_2)
Source of chirality: enzymatic kinetic resolution
Absolute configuration: (*R*)

Gizelle A.B. Vieira, Telma L.G. Lemos, Marcos Carlos de Mattos *,
Maria da Conceicão F. de Oliveira, Vânia M.M. Melo, Gonzalo de Gonzalo,
Vicente Gotor-Fernández, Vicente Gotor *

Tetrahedron: Asymmetry *20 (2009) 214*



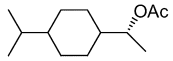
$C_{11}H_{22}O$

(+)-1-(*S*)-(4-Isopropylcyclohexyl)ethanol

Ee 98% (GC, Chiralsil Dex-CB)
De 64% (^{1}H NMR)
$[\alpha]_D^{20} = +8.6$ (*c* 3.3, EtOH)
Source of chirality: enzymatic kinetic resolution
Absolute configuration: (*S*)

Gizelle A.B. Vieira, Telma L.G. Lemos, Marcos Carlos de Mattos *,
Maria da Conceicão F. de Oliveira, Vânia M.M. Melo, Gonzalo de Gonzalo,
Vicente Gotor-Fernández, Vicente Gotor *

Tetrahedron: Asymmetry *20 (2009) 214*



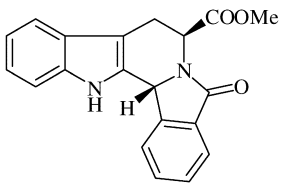
$C_{13}H_{24}O_2$

(+)-1-(*R*)-(4-Isopropylcyclohexyl)ethyl acetate

Ee >99% (GC, Chiralsil Dex-CB)
De 15% (GC, Chiralsil Dex-CB)
$[\alpha]_D^{20} = +1.2$ (*c* 0.66, CH_2Cl_2)
Source of chirality: enzymatic kinetic resolution
Absolute configuration: (*R*)

Prasad B. Wakchaure, Vedavati G. Puranik, Narshinha P. Argade *

Tetrahedron: Asymmetry *20 (2009) 220*



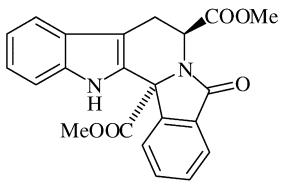
$C_{20}H_{16}N_2O_3$

(*S*)-7-Oxo-6,7,11b,12-tetrahydro-5*H*-6a,12-diaza-(*R*)-indeno[1,2-*a*]fluorene-6-carboxylic acid methyl ester

De ~ 100%; ee >98%
$[\alpha]_D^{20} = +101.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: (*S*)-tryptophan
Absolute configuration: (*S*,*R*)

Prasad B. Wakchaure, Vedavati G. Puranik, Narshinha P. Argade *

Tetrahedron: Asymmetry *20 (2009) 220*



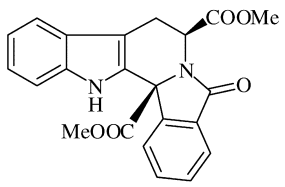
$C_{22}H_{18}N_2O_5$

(*S*)-Methyl 5,7,8,13b-Tetrahydro-5-oxo-13*H*-13b-methoxycarbonyl-(*S*)-indolo[2,3-*c*]isoindolo[2,1-*a*] pyridine-7-carboxylate

Ee ~ 100%
$[\alpha]_D^{20} = -43.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: (*S*)-tryptophan
Absolute configuration: (*S*,*S*)

Prasad B. Wakchaure, Vedavati G. Puranik, Narshinha P. Argade *

Tetrahedron: Asymmetry *20 (2009) 220*



$C_{22}H_{18}N_2O_5$

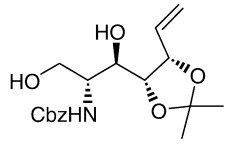
Ee ~ 100%
$[\alpha]_D^{30} = +63.5$ (*c* 2.4, $CHCl_3$)
Source of chirality: (*S*)-tryptophan
Absolute configuration: (*S*,*R*)

(*R*)-Methyl 5,7,8,13b-Tetrahydro-5-oxo-13*H*-13b-methoxycarbonyl-(*S*)-indolo[2,3-*c*]isoindolo[2,1-*a*]pyridine-7-carboxylate

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{24} = +6.8$ (*c* 0.99, $CHCl_3$)



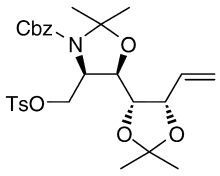
$C_{18}H_{25}O_6N$

Methyl (2*S*,3*R*,4*S*,5*S*)-2-*N*-carboxybenzylamido-3-hydroxy-4,5-*O*-isopropyriden-6-hepten-1-ol

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{26} = -2.6$ (*c* 0.94, $CHCl_3$)



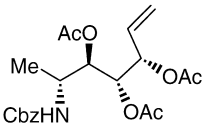
$C_{28}H_{35}O_8NS$

(2*S*,3*R*,4*S*,5*S*)-2-*N*-Carboxybenzylamido-3-hydroxy-2,3/4,5-*O*,*N*-diisopropyriden-6-heptenyl-1-*O*-*p*-toluenesulfonylate

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{27} = +22.6$ (*c* 0.95, $CHCl_3$)



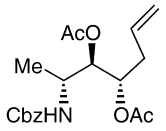
$C_{21}H_{27}O_8N$

(2*S*,3*R*,4*S*,5*S*)-2-*N*-Carboxybenzylamido-3,4,5-triacetoxy-6-heptene

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{25} = +24.0$ (*c* 1.17, $CHCl_3$)



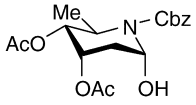
$C_{19}H_{25}O_6N$

(2*S*,3*R*,4*S*,5*S*)-2-*N*-Carboxybenzylamido-3,4-diaccetoxy-6-heptene

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{21} = -26.4$ (*c* 1.24, $CHCl_3$)



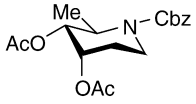
$C_{18}H_{23}O_7N$

5-*N*-Carboxybenzylamido-5,6-dideoxy-3,4-diacetoxy-D-*allo*-iminopyranoside

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

Tetrahedron: Asymmetry *20 (2009) 230*

$[\alpha]_D^{25} = -56.9$ (*c* 0.690, $CHCl_3$)



$C_{18}H_{23}O_6N$

5-*N*-Carboxybenzylamido-1,5,6-trideoxy-3,4-diacetoxy-D-*allo*-iminopyranoside

Toshihiro Nishiyama, Tetsuya Kajimoto *, Swapnil S. Mohile, Noboru Hayama, Teppei Otsuda, Minoru Ozeki, Manabu Node *

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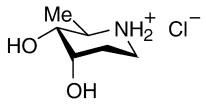
$[\alpha]_D^{25} = +46.8$ (*c* 0.86, MeOH)



$C_6H_{14}O_2NCl$

5-*N*-Carboxybenzylamido-1,5,6-trideoxy-3,4-dihydro-D-*allo*-iminopyranoside hydrochloride

Dong-Yun Zou, Zheng-Chao Duan, Xiang-Ping Hu *, Zhuo Zheng *

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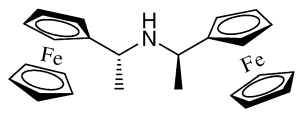

Ee >98%
$[\alpha]_D^{20} = -69.4$ (*c* 0.30, $CHCl_3$)
Source of chirality: *N*,*N*-dimethyl-(*R*)-1-ferrocenylethylamine
Absolute configuration: (*R*,*R*)

$C_{24}H_{27}Fe_2N$
Bis[(*R*)-1-ferrocenylethyl]amine

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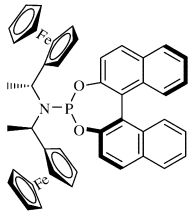

Ee >98%
$[\alpha]_D^{25} = -581$ (*c* 0.598, $CHCl_3$)
Source of chirality: (*R*)-BINOL, bis(1-ferrocenylethyl)amine
Absolute configuration: (*R*,*R*,*R*)

$C_{44}H_{39}Fe_2NO_2P$
O,*O*′-(*R*)-(1,1′-Dinaphthyl-2,2′-diyl)-*N*,*N*′-di(*R*,*R*)-1-ferrocenylethylphosphoramidite

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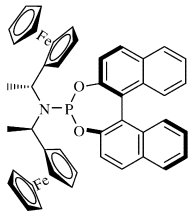

Ee >98%
$[\alpha]_D^{25} = -42$ (*c* 0.518, $CHCl_3$)
Source of chirality: (*S*)-BINOL, bis(1-ferrocenylethyl)amine
Absolute configuration: (*S*,*R*,*R*)

$C_{44}H_{39}Fe_2NO_2P$
O,*O*′-(*S*)-(1,1′-Dinaphthyl-2,2′-diyl)-*N*,*N*′-di(*R*,*R*)-1-ferrocenylethylphosphoramidite

Ming Zhao, Yuji Wang, Caixia Huo, Chunyu Li, Xiaoyi Zhang, Li Peng, Shiqi Peng *

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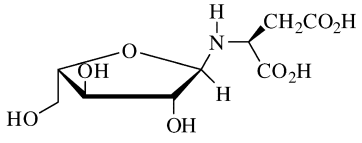

$[\alpha]_D^{25} = +7.6$ (*c* 1.1, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)

$C_9H_{15}O_8N$
N-(α-L-Arabinofuranos-1-yl)-L-aspartic acid

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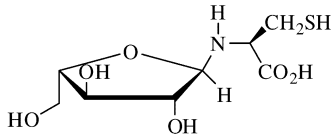

$C_9H_{17}O_7NS$

N-(α-L-Arabinofuranos-1-yl)-L-cysteine

$[\alpha]_D^{25} = +38.1$ (*c* 1.1, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)

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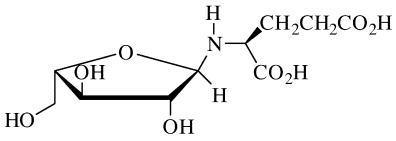

$C_{10}H_{17}O_8N$

N-(α-L-Arabinofuranos-1-yl)-L-glutamic acid

$[\alpha]_D^{25} = +10.0$ (*c* 1.2, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)

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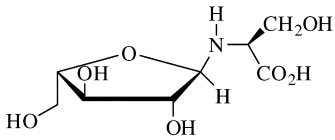

$C_8H_{15}O_7N$

N-(α-L-Arabinofuranos-1-yl)-L-serine

$[\alpha]_D^{25} = +20.0$ (*c* 1.1, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)

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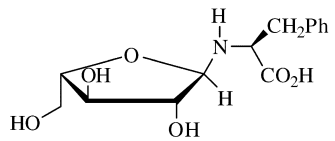

$C_{14}H_{19}O_6N$

N-(α-L-Arabinofuranos-1-yl)-L-phenylalanine

$[\alpha]_D^{25} = +6.7$ (*c* 1.2, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)

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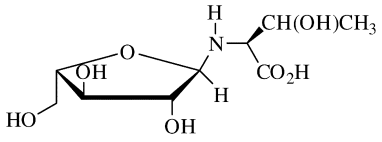

$C_{14}H_{19}O_6N$

N-(α-L-Arabinofuranos-1-yl)-L-theorine

$[\alpha]_D^{25} = +8.0$ (*c* 1.1, H_2O)
Source of chirality: L-arabinose and L-amino acid
Absolute configuration: (1*R*,2*R*,3*R*,4*S*,2′*S*)