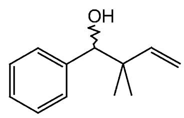
Stereochemistry abstracts

Irene M. Barrett and Simon W. Breeden*

Tetrahedron: Asymmetry *15 (2004) 3015*



$C_{12}H_{16}O$

2,2-Dimethyl-1-phenyl-but-3-en-1-ol

Ee 66%

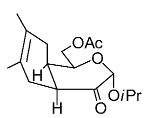
$[\alpha]_D^{25} = 19.3$ (*c* 0.64 in benzene)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Christian A. Iriarte Capaccio and Oscar Varela*

Tetrahedron: Asymmetry *15 (2004) 3023*



$C_{17}H_{26}O_5$

1-Acetoxymethyl-6,7-dimethyl-3-(2-propyloxy)-4a,5,8,8a-tetrahydro-1*H*-2-benzopyran-4(3*H*)-one

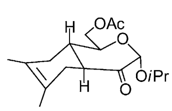
$[\alpha]_D = -9.8$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-galactose

Absolute configuration: 1*S*,3*S*,4a*S*,8a*R*

Christian A. Iriarte Capaccio and Oscar Varela*

Tetrahedron: Asymmetry *15 (2004) 3023*



$C_{17}H_{26}O_5$

1-Acetoxymethyl-6,7-dimethyl-3-(2-propyloxy)-4a,5,8,8a-tetrahydro-1*H*-2-benzopyran-4(3*H*)-one

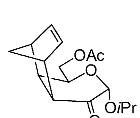
$[\alpha]_D = +179.7$ (*c* 1.1, $CHCl_3$)

Source of chirality: D-galactose

Absolute configuration: 1*S*,3*S*,4a*S*,8a*S*

Christian A. Iriarte Capaccio and Oscar Varela*

Tetrahedron: Asymmetry *15 (2004) 3023*



$C_{16}H_{22}O_5$

1-Acetoxymethyl-3-(2-propyloxy)-4a,5,8,8a-tetrahydro-5,8-methano-1*H*-2-benzopyran-4(3*H*)-one

$[\alpha]_D = +58.7$ (*c* 1.0, $CHCl_3$)

Source of chirality: D-galactose

Absolute configuration: 1*S*,3*S*,4a*S*,5*R*,8*S*,8a*R*

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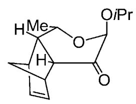
Tetrahedron: Asymmetry *15 (2004) 3023*



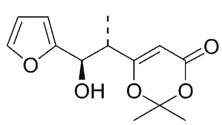
$C_{14}H_{20}O_3$

1-Methyl-3-(2-propyloxy)-4a,5,8,8a-tetrahydro-5,8-methano-1*H*-2-benzopyran-4(3*H*)-one

$[\alpha]_D = -86.5$ (c 1.0, $CHCl_3$)
Source of chirality: L-fucose
Absolute configuration: 1*S*,3*R*,4a*R*,5*S*,8*R*,8a*S*

Margherita De Rosa, Maria R. Acocella, Michele F. Rega and Arrigo Scettri*

Tetrahedron: Asymmetry *15 (2004) 3029*



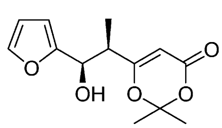
$C_{13}H_{16}O_5$

6-(2-Furan-2-yl-2-hydroxy-1-methyl-ethyl)-2,2-dimethyl-[1,3]dioxin-4-one

Ee = 56% (HPLC, CHIRALPAK AD)
$[\alpha]_D^{25} = +27.2$ (c 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*S*,2*R*

Margherita De Rosa, Maria R. Acocella, Michele F. Rega and Arrigo Scettri*

Tetrahedron: Asymmetry *15 (2004) 3029*



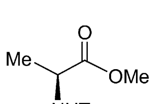
$C_{13}H_{16}O_5$

6-(2-Furan-2-yl-2-hydroxy-1-methyl-ethyl)-2,2-dimethyl-[1,3]dioxin-4-one

Ee = 94% (HPLC, CHIRALPAK AD)
$[\alpha]_D^{25} = -2.8$ (c 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 1*R*,2*R*

Mario Ordóñez,* Ricardo De la Cruz-Cordero, Mario Fernández-Zertuche, Miguel Angel Muñoz-Hernández and Oscar García-Barradas

Tetrahedron: Asymmetry *15 (2004) 3035*



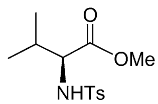
$C_{11}H_{15}NO_4S$

(*S*)-*N*-(*p*-Toluenesulfonyl)alanine methyl ester

Ee >98%
$[\alpha]_D = +0.4$ (c = 1.2, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

Mario Ordóñez,* Ricardo De la Cruz-Cordero, Mario Fernández-Zertuche, Miguel Angel Muñoz-Hernández and Oscar García-Barradas

Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{13}H_{19}NO_4S$

(*S*)-*N*-(*p*-Toluenesulfonyl)valine methyl ester

Ee >98%

$[\alpha]_D = +15.6$ (c = 0.89, $CHCl_3$)

Source of chirality: synthesis

Absolute configuration: (*S*)

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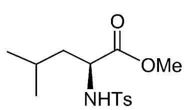
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{14}H_{21}NO_4S$

(*S*)-*N*-(*p*-Toluenesulfonyl)leucine methyl ester

Ee >98%

$[\alpha]_D = +8.0$ (c = 1.59, $CHCl_3$)

Source of chirality: synthesis

Absolute configuration: (*S*)

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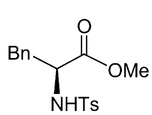
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{17}H_{19}NO_4S$

(*S*)-*N*-(*p*-Toluenesulfonyl)phenylalanine methyl ester

Ee >98%

$[\alpha]_D = +10.5$ (c = 1.14, $CHCl_3$)

Source of chirality: synthesis

Absolute configuration: (*S*)

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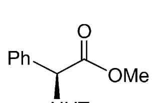
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{17}H_{19}NO_4S$

(*S*)-*N*-(*p*-Toluenesulfonyl)phenylglycine methyl ester

Ee >98%

$[\alpha]_D = +101.9$ (c = 1.2, $CHCl_3$)

Source of chirality: synthesis

Absolute configuration: (*S*)

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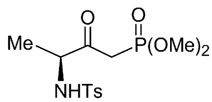
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{13}H_{20}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-2-oxobutylphosphonate

Ee >98%
$[\alpha]_D = +0.15$ (c = 6.36, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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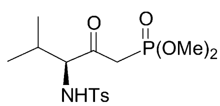
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{15}H_{24}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-4-methyl-2-oxopentylphosphonate

Ee >98%
$[\alpha]_D = +66.07$ (c = 5.92, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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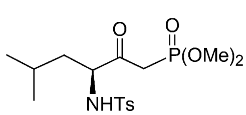
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{16}H_{26}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-5-methyl-2-oxohexylphosphonate

Ee >98%
$[\alpha]_D = +0.3$ (c = 5.02, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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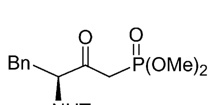
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{19}H_{24}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-2-oxo-4-phenylbutylphosphonate

Ee >98%
$[\alpha]_D = +0.2$ (c = 4.73, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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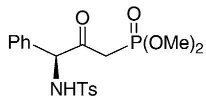
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{18}H_{22}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-2-oxo-4-phenylpropylphosphonate

Ee >98%
$[\alpha]_D = +0.5$ (c = 5.71, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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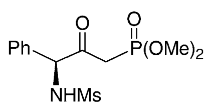
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{12}H_{18}NO_6PS$

Dimethyl (*S*)-3-[(methanesulfonyl)amino]-2-oxo-4-phenylpropylphosphonate

Ee >98%
$[\alpha]_D = -0.2$ (c = 2.11, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*)

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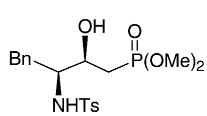
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{19}H_{26}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-(*R*)-2-hydroxy-4-phenylbutylphosphonate

De >98%
$[\alpha]_D = -74.9$ (c = 1.89, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*R*,*S*)

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Mario Fernández-Zertuche, Miguel Angel Muñoz-Hernández and
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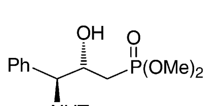
Tetrahedron: Asymmetry *15 (2004) 3035*



$C_{18}H_{24}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-(*S*)-2-hydroxy-4-phenylpropylphosphonate

De >98%
$[\alpha]_D = +0.5$ (c = 1.19, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*S*,*S*)

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Mario Fernández-Zertuche, Miguel Angel Muñoz-Hernández and
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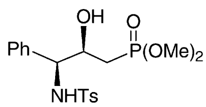
Tetrahedron: Asymmetry *15 (2004) 3035*



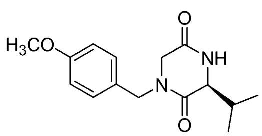
$C_{18}H_{24}NO_6PS$

Dimethyl (*S*)-3-[(*p*-toluenesulfonyl)amino]-(*R*)-2-hydroxy-4-phenylpropylphosphonate

De >98%
$[\alpha]_D = +0.6$ (c = 1.23, $CHCl_3$)
Source of chirality: synthesis
Absolute configuration: (*R*,*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha,
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



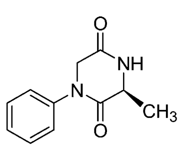
$C_{15}H_{20}N_2O_3$

(3*S*)-1-*p*-Methoxybenzyl-3-*iso*-propylpiperazine-2,5-dione

$[\alpha]_D^{25} = +11.9$ (c 0.46, $CHCl_3$)
Source of chirality: from (*S*)-valine
Absolute configuration: (6*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha,
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{11}H_{12}N_2O_2$

(3*S*)-3-Methyl-1-phenylpiperazine-2,5-dione

$[\alpha]_D^{25} = -21.7$ (c 0.25, $CHCl_3$)
Source of chirality: from (*S*)-alanine
Absolute configuration: (6*S*)

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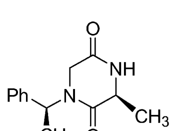
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



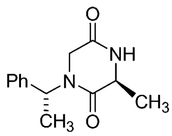
$C_{13}H_{16}N_2O_2$

(1′*S*,3*S*)-3-Methyl-1-(1-phenylethyl)piperazine-2,5-dione

$[\alpha]_D^{25} = -124$ (c 0.25, $CHCl_3$)
Source of chirality: from (*S*)-alanine and (*S*)-1-phenethylamine
Absolute configuration: (1′*S*,3*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha, Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{13}H_{16}N_2O_2$

(1′*R*,3*S*)-3-Methyl-1-(1-phenylethyl)piperazine-2,5-dione

$[\alpha]_D^{25} = +148$ (*c* 0.25, $CHCl_3$)

Source of chirality: from (*S*)-alanine and (*R*)-1-phenethylamine

Absolute configuration: (1′*R*,3*S*)

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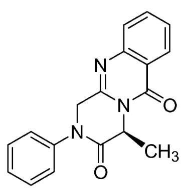
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{18}H_{15}N_3O_2$

(4*S*)-4-Methyl-2-phenyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

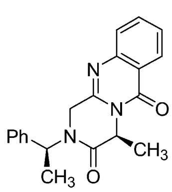
$[\alpha]_D^{25} = +11.4$ (*c* 0.25, $CHCl_3$)

Source of chirality: from (*S*)-alanine

Absolute configuration: (4*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha, Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{20}H_{19}N_3O_2$

(1′*S*,4*S*)-4-Methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

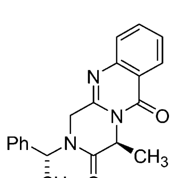
$[\alpha]_D^{25} = -38$ (*c* 0.25, $CHCl_3$)

Source of chirality: from (*S*)-alanine and (*S*)-1-phenethylamine

Absolute configuration: (1′*S*,4*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha, Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{20}H_{19}N_3O_2$

(1′*R*,4*S*)-4-Methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +141$ (*c* 0.26, $CHCl_3$)

Source of chirality: from (*S*)-alanine and (*R*)-1-phenethylamine

Absolute configuration: (1′*R*,4*S*)

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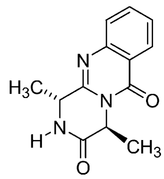
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{13}H_{13}N_3O_2$

(1*R*,4*S*)-1,4-Dimethyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +98.2$ (*c* 0.28, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,4*S*)

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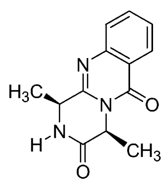
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{13}H_{13}N_3O_2$

(1*S*,4*S*)-1,4-Dimethyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

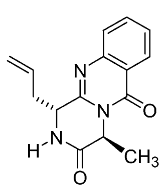
$[\alpha]_D^{25} = +110.5$ (*c* 0.41, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*S*)

Fernando Hernández, Viviana Morales, Félix L. Buenadicha, Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{15}H_{15}N_3O_2$

(1*R*,4*S*)-1-Allyl-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +175.6$ (*c* 0.25, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*R*,4*S*)

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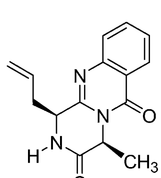
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{15}H_{15}N_3O_2$

(1*S*,4*S*)-1-Allyl-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +92.0$ (*c* 0.05, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1*S*,4*S*)

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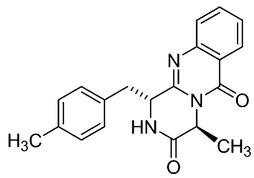
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{20}H_{19}N_3O_2$

(1*R*,4*S*)-4-Methyl-1-(*p*-methylbenzyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +152.7$ (*c* 0.15, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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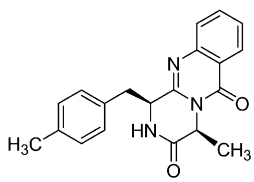
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{20}H_{19}N_3O_2$

(1*S*,4*S*)-4-Methyl-1-(*p*-methylbenzyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +23.4$ (*c* 0.16, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*)

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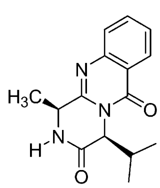
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{15}H_{17}N_3O_2$

(1*S*,4*S*)-4-*iso*-Propyl-1-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +82.9$ (*c* 0.25, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*)

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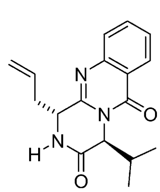
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{17}H_{19}N_3O_2$

(1*R*,4*S*)-1-Allyl-4-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +175.2$ (*c* 0.23, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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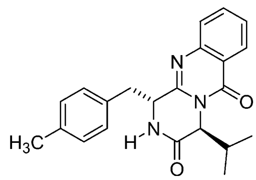
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{22}H_{23}N_3O_2$

(1*R*,4*S*)-4-*iso*-Propyl-1-*p*-methylbenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +200.0$ (*c* 0.06, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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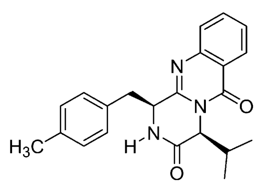
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{22}H_{23}N_3O_2$

(1*S*,4*S*)-4-*iso*-Propyl-1-*p*-methylbenzyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +73.7$ (*c* 0.18, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*)

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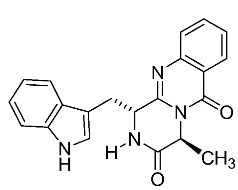
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{21}H_{18}N_4O_2$

(1*R*,4*S*)-1-(3-Indolylmethyl)-4-methyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +30.6$ (*c* 0.16, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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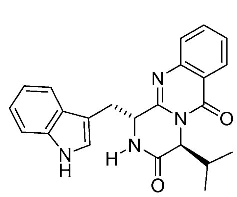
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{23}H_{22}N_4O_2$

(1*R*,4*S*)-1-(3-Indolylmethyl)-4-*iso*-propyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +66.2$ (*c* 0.07, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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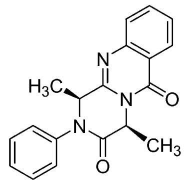
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{19}H_{17}N_3O_2$

(1*S*,4*S*)-1,4-Dimethyl-2-phenyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +12.4$ (*c* 0.25, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*)

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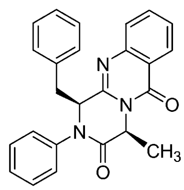
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{25}H_{21}N_3O_2$

(1*S*,4*S*)-1-Benzyl-4-methyl-2-phenyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +79.5$ (*c* 0.15, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*S*,4*S*)

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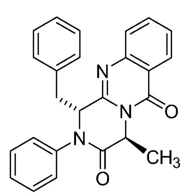
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{25}H_{21}N_3O_2$

(1*R*,4*S*)-1-Benzyl-4-methyl-2-phenyl-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = -38.2$ (*c* 0.12, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1*R*,4*S*)

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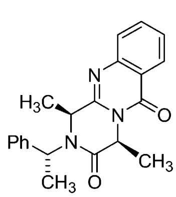
Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{21}H_{21}N_3O_2$

(1′*R*,1*S*,4*S*)-1,4-Dimethyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +120$ (*c* 0.30, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,1*S*,4*S*)

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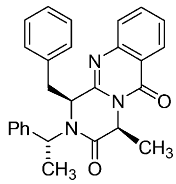
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{27}H_{25}N_3O_2$

(1′*R*,1*S*,4*S*)-1-Benzyl-4-methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +120$ (*c* 0.27, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,1*S*,4*S*)

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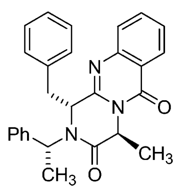
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{27}H_{25}N_3O_2$

(1′*R*,1*R*,4*S*)-1-Benzyl-4-methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +127$ (*c* 0.20, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,1*R*,4*S*)

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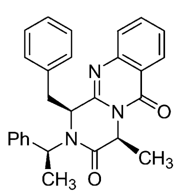
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{27}H_{25}N_3O_2$

(1′*S*,1*S*,4*S*)-1-Benzyl-4-methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = +27.3$ (*c* 0.33, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*S*,1*S*,4*S*)

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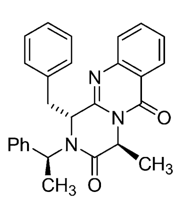
Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



$C_{27}H_{25}N_3O_2$

(1′*S*,1*R*,4*S*)-1-Benzyl-4-methyl-2-(1′-phenylethyl)-2,4-dihydro-1*H*-pyrazino[2,1-*b*]quinazoline-3,6-dione

$[\alpha]_D^{25} = -42.4$ (*c* 0.25, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*S*,1*R*,4*S*)

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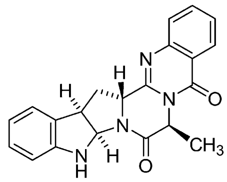
Tetrahedron: Asymmetry *15 (2004) 3045*



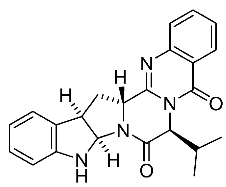
$C_{21}H_{18}N_4O_2$

$[\alpha]_D^{25} = +203.9$ (*c* 0.17, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (5a*R*,8*S*,15b*R*,16a*R*)

(5a*R*,8*S*,15b*R*,16a*R*)-8-Methyl-5,5a,8,15b,16,16a-hexahydro-indolo[3″,2″-4′,5′]pyrrolo[2′,1′-3,4]pyrazino[2,1-*b*]quinazoline-7,10-dione

Fernando Hernández, Viviana Morales, Félix L. Buenadicha, Mónica Söllhuber* and Carmen Avendaño*

Tetrahedron: Asymmetry *15 (2004) 3045*



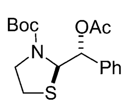
$C_{23}H_{22}N_4O_2$

$[\alpha]_D^{25} = +135.4$ (*c* 0.07, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (5a*R*,8*S*,15b*R*,16a*R*)

(5a*R*,8*S*,15b*R*,16a*R*)-8-*iso*-Propyl-5,5a,8,15b,16,16a-hexahydro-indolo[3″,2″-4′,5′]pyrrolo[2′,1′-3,4]pyrazino[2,1-*b*]quinazoline-7,10-dione

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



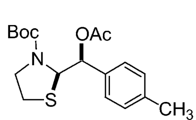
$C_{17}H_{23}NO_4S$

Ee = 99%
$[\alpha]_D^{20} = +36.6$ (*c* 0.253, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

(1′*R*,2*R*)-*tert*-Butyl 2-(1-acetoxy-1-phenylmethyl)thiazolidine-3-carboxylate

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{18}H_{25}NO_4S$

Ee = 98%
$[\alpha]_D^{20} = +64.6$ (*c* 0.407, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*S*,2*R*)

(1′*S*,2*R*)-*tert*-Butyl 2-[1-acetoxy-1-(4-tolyl)methyl]thiazolidine-3-carboxylate

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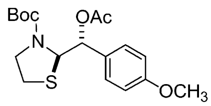
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{18}H_{25}NO_5S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-acetoxy-1-(4-methoxyphenyl)methyl]thiazolidine-3-carboxylate

Ee = >99%
$[\alpha]_D^{20} = +20.7$ (*c* 0.627, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

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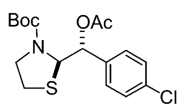
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{17}H_{22}ClNO_4S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-acetoxy-1-(4-chlorophenyl)methyl]thiazolidine-3-carboxylate

Ee = >99%
$[\alpha]_D^{20} = +44.1$ (*c* 0.520, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

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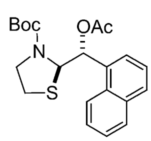
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{21}H_{25}NO_4S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-acetoxy-1-(1-naphthyl)methyl]thiazolidine-3-carboxylate

Ee = 88%
$[\alpha]_D^{20} = -11.3$ (*c* 1.34, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

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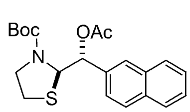
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{21}H_{25}NO_4S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-acetoxy-1-(2-naphthyl)methyl]thiazolidine-3-carboxylate

Ee = >99%
$[\alpha]_D^{20} = +15.0$ (*c* 0.830, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

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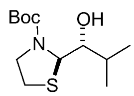
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{12}H_{23}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-2-methylpropyl]thiazolidine-3-carboxylate

Ee = 87%

$[\alpha]_D^{20} = +51.3$ (*c* 0.427, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1′*R*,2*R*)

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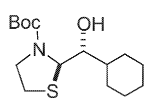
Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{15}H_{27}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-cyclohexyl]thiazolidine-3-carboxylate

Ee = 89%

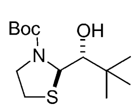
$[\alpha]_D^{20} = +58.0$ (*c* 0.470, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{13}H_{25}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-2,2-dimethylpropyl]thiazolidine-3-carboxylate

Ee = 87%

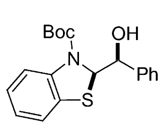
$[\alpha]_D^{20} = +36.4$ (*c* 0.566, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{19}H_{21}NO_3S$

(1′*S*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-phenylmethyl]benzothiazolidine-3-carboxylate

Ee = 93%

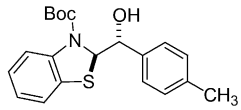
$[\alpha]_D^{20} = +75.5$ (*c* 1.84, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1′*S*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



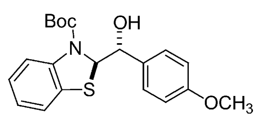
$C_{20}H_{23}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-(4-tolyl)methyl]benzothiazolidine-3-carboxylate

Ee = 93%
$[\alpha]_D^{20} = +110.6$ (*c* 0.550, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



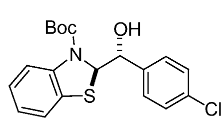
$C_{20}H_{23}NO_4S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-(4-methoxyphenyl)methyl]benzothiazolidine-3-carboxylate

Ee = 88%
$[\alpha]_D^{20} = +120.1$ (*c* 0.460, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



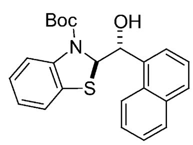
$C_{19}H_{20}ClNO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-(4-chlorophenyl)methyl]benzothiazolidine-3-carboxylate

Ee = 89%
$[\alpha]_D^{20} = +107.3$ (*c* 0.833, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



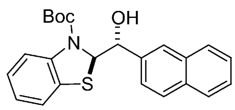
$C_{23}H_{23}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-(1-naphthyl)methyl]benzothiazolidine-3-carboxylate

Ee = 86%
$[\alpha]_D^{20} = +56.4$ (*c* 0.246, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (1′*R*,2*R*)

Libo Wang, Shuichi Nakamura, Yuji Ito and Takeshi Toru*

Tetrahedron: Asymmetry *15 (2004) 3059*



$C_{23}H_{23}NO_3S$

(1′*R*,2*R*)-*tert*-Butyl 2-[1-hydroxy-1-(2-naphthyl)methyl]benzothiazolidine-3-carboxylate

Ee = 86%

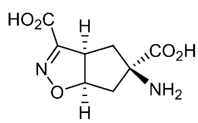
$[\alpha]_D^{20} = +76.4$ (*c* 0.513, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (1′*R*,2*R*)

Gabriella Roda, Paola Conti, Marco De Amici,* Jiangtao He, Prasad L. Polavarapu* and Carlo De Micheli

Tetrahedron: Asymmetry *15 (2004) 3079*



$C_8H_{10}N_2O_5$

(3a*R*,5*R*,6a*R*)-5-Amino-4,5,6,6a-tetrahydro-3a*H*-cyclopenta[*d*]isoxazole-3,5-dicarboxylic acid

$[\alpha]_D^{20} = +199.0$ (*c* 0.10, H_2O)

Source of chirality: enzyme-catalyzed hydrolysis

Enantiomeric excess: >99% (chiral HPLC analysis)

Absolute configuration: (3a*R*,5*R*,6a*R*)

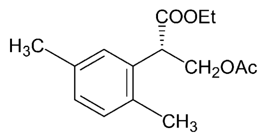
Gabriella Roda, Paola Conti, Marco De Amici,* Jiangtao He

Tetrahedron: Asymmetry *15 (2004) 3079*

[redacted]

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{15}H_{20}O_4$

(*S*)-(−)-3-Acetoxy-2-(2,5-dimethyl-2-phenyl)-propionic acid ethyl ester

Ee = 83%

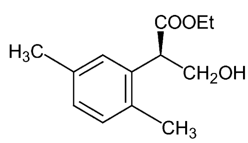
$[\alpha]_D^{25} = -30.5$ (*c* 1.35, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*S*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{13}H_{18}O_3$

(*R*)-(+)-3-Hydroxy-2-(2,5-dimethylphenyl)-propionic acid ethyl ester

Ee = 87%

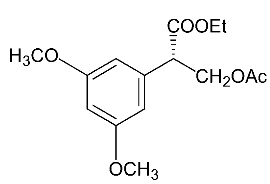
$[\alpha]_D^{25} = +45$ (*c* 0.25, $CHCl_3$)

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{15}H_{20}O_6$

(*S*)-(−)-3-Acetoxy-2-(3,5-dimethoxyphenyl)-propionic acid ethyl ester

Ee = 94%

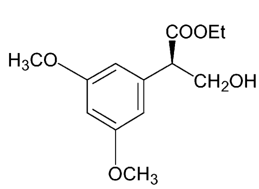
$[\alpha]_D^{25} = -32.5$ (*c* 1.01, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*S*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{13}H_{18}O_5$

(*R*)-(+)-3-Hydroxy-2-(3,5-dimethoxyphenyl)-propionic acid ethyl ester

Ee = 94%

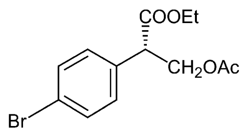
$[\alpha]_D^{25} = +49$ (*c* 1.23, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*R*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{13}H_{15}BrO_4$

(*S*)-(−)-3-Acetoxy-2-(4-bromophenyl)-propionic acid ethyl ester

Ee = 64%

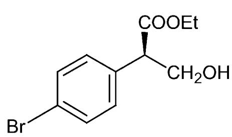
$[\alpha]_D^{25} = -32.5$ (*c* 2.31, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*S*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{11}H_{12}BrO_2$

(*R*)-(+)-3-Hydroxy-2-(*p*-bromophenyl)-propionic acid ethyl ester

Ee = 67%

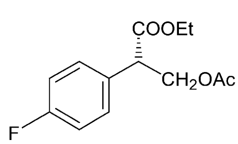
$[\alpha]_D^{25} = +30$ (*c* 0.5, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*R*)

Mary Rose Atuu, Syed J. Mahmood, Frank Laib and M. Mahmun Hossain*

Tetrahedron: Asymmetry *15 (2004) 3091*



$C_{11}H_{12}FO_4$

(S)-(−)-3-Acetoxy-2-(4-fluorophenyl)-propionic acid ethyl ester

Ee = 50%

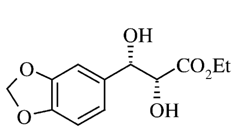
$[\alpha]_D^{25} = -24.5$ (*c* 1.31, $CHCl_3$)

Source of enantiomer: kinetic resolution

Absolute configuration: (*S*)

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry *15 (2004) 3111*



$C_{12}H_{14}O_6$

Ethyl (2*R*,3*S*)-2,3-dihydroxy-3-(3,4-methylenedioxylphenyl)propionate

Ee = not determined

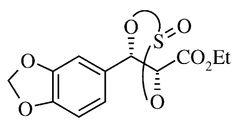
$[\alpha]_D^{25} = +4.0$ (*c* 0.6, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry 15 (2004) 3111



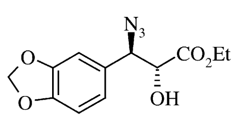
$C_{12}H_{12}SO_7$

Ethyl (4*R*,5*S*)-4-carbethoxy-5-(3,4-methylenedioxylphenyl)1,3,2-dioxathiolane-2-oxide

Ee = not determined
$[\alpha]_D^{25} = -100.0$ (*c* 2.3, EtOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (4*R*,5*S*)

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry 15 (2004) 3111



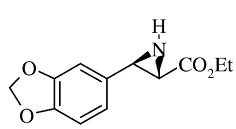
$C_{12}H_{13}N_3O_5$

Ethyl (2*R*,3*R*)-3-azido-2-hydroxy-3-(3,4-methylenedioxylphenyl)propionate

Ee = 95% (Mosher's method)
$[\alpha]_D^{25} = -65.0$ (*c* 0.8, EtOH)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*R*,3*R*)

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry 15 (2004) 3111



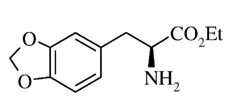
$C_{12}H_{13}NO_4$

Ethyl (2*S*,3*R*)-3-(3,4-methylenedioxylphenyl)aziridine-2-carboxylate

Ee = not determined
$[\alpha]_D^{25} = +176.2$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: (2*S*,3*R*)

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry 15 (2004) 3111



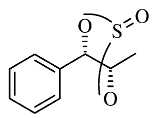
$C_{12}H_{15}NO_4$

Ethyl (*S*)-2-amino-3-(3,4-methylenedioxylphenyl)propionate

Ee = not determined
$[\alpha]_D^{25} = +7.5$ (*c* 0.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: *S*

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry *15 (2004) 3111*



$C_9H_{10}SO_3$

(4*S*,5*S*)-4-Methyl-5-phenyl-1,3,2-dioxathiolane-2-oxide

Ee = not determined

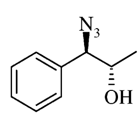
$[\alpha]_D^{25} = -17.1$ (*c* 1.04, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry *15 (2004) 3111*



$C_9H_{11}N_3O$

(1*R*,2*S*)-1-Azido-1-phenylpropane-2-ol

Ee = not determined

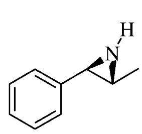
$[\alpha]_D^{25} = -228.2$ (*c* 1.2, $CHCl_3$)

Source of chirality: asymmetric synthesis

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

Iliyas Ali Sayyed and Arumugam Sudalai*

Tetrahedron: Asymmetry *15 (2004) 3111*



$C_9H_{11}N$

(2*R*,3*R*)-2-Methyl-3-phenylaziridine

Ee = not determined

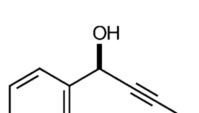
$[\alpha]_D^{25} = -25.6$ (*c* 2.0, MeOH)

Source of chirality: asymmetric synthesis

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

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



C_9H_8O

(*S*)-(+)-1-Phenyl-prop-2-yn-1-ol

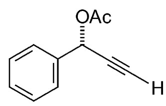
Ee = 99%

$[\alpha]_D^{25} = +16.3$ (*c* 4.34, $CHCl_3$)

Absolute configuration: *S*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{11}H_{10}O_2$

(*R*)-(+)-1-Phenyl-prop-2-yn-1-acetyloxy

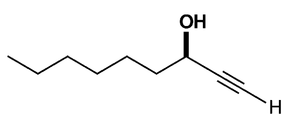
Ee = 98%

$[\alpha]_D^{25} = +4.4$ (*c* 4.33, $CHCl_3$)

Absolute configuration: *R*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_9H_{16}O$

(*R*)-(+)-Non-1-yn-3-ol

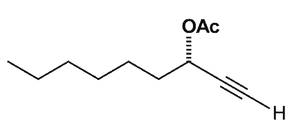
Ee = 96%

$[\alpha]_D^{25} = +9.15$ (*c* 4.59, $CHCl_3$)

Absolute configuration: *R*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{11}H_{16}O_{18}$

(*S*)-(−)-Non-1-yn-3-acetyloxy

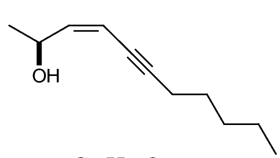
Ee = 96%

$[\alpha]_D^{25} = -48.6$ (*c* 4.01, $CHCl_3$)

Absolute configuration: *S*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{11}H_{18}O$

(*S*)-(−)-Undec-3-en-5-yn-2-ol

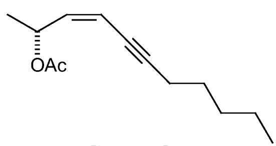
Ee >99%

$[\alpha]_D^{25} = -35.2$ (*c* 0.54, $CHCl_3$)

Absolute configuration: *S*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{13}H_{20}O_2$

(*R*)-(+)-Undec-3-en-5-yn-2-ol-acetyloxy

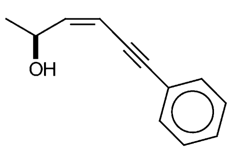
Ee = 94%

$[\alpha]_D^{25} = -55.7$ (*c* 1.31, $CHCl_3$)

Absolute configuration: *R*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{12}H_{12}O$

(*S*)-(+)-6-Phenyl-hex-3-en-5-yn-2-ol

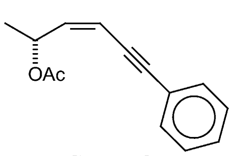
Ee = 80%

$[\alpha]_D^{25} = +46.9$ (*c* 3.37, $CHCl_3$)

Absolute configuration: *S*

Cristiano Raminelli, João V. Comasseto, Leandro H. Andrade and André L. M. Porto*

Tetrahedron: Asymmetry *15 (2004) 3117*



$C_{14}H_{14}O_2$

(*R*)-(−)-6-Phenyl-hex-3-en-5-yn-2-acetyloxy

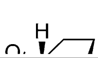
Ee = 70%

$[\alpha]_D^{25} = -116.6$ (*c* 3.32, $CHCl_3$)

Absolute configuration: *R*

D. Christopher Braddock,* Gemma Cansell, Stephen A. Hermitage and Andrew J. P. White

Tetrahedron: Asymmetry *15 (2004) 3123*



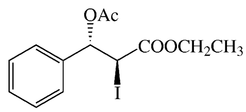
Ee >96%

$[\alpha]_D = -178.4$ (*c* 1.84, $CDCl_3$)

Source of chirality: asymmetric catalysis

Naveen Anand, Munish Kapoor, Surrinder Koul, Subhash C. Taneja,* Rattan L. Sharma and Ghulam N. Qazi

Tetrahedron: Asymmetry *15 (2004) 3131*



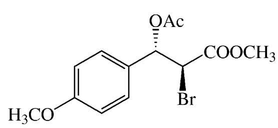
$C_{13}H_{15}IO_4$

(2*S*,3*S*)-Ethyl-3-acetoxy-2-iodo-3-phenylpropanoate

Ee = 96.3% (HPLC analysis)
$[\alpha]_D^{25} = +53.5$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: 2*S*,3*S*

Naveen Anand, Munish Kapoor, Surrinder Koul, Subhash C. Taneja,* Rattan L. Sharma and Ghulam N. Qazi

Tetrahedron: Asymmetry *15 (2004) 3131*



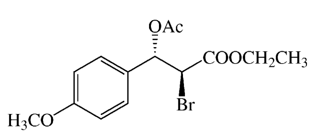
$C_{13}H_{15}BrO_5$

(2*S*,3*S*)-Methyl-3-acetoxy-2-bromo-3-(4-methoxyphenyl)propanoate

Ee = 96.7% (HPLC analysis)
$[\alpha]_D^{25} = +40.6$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: 2*S*,3*S*

Naveen Anand, Munish Kapoor, Surrinder Koul, Subhash C. Taneja,* Rattan L. Sharma and Ghulam N. Qazi

Tetrahedron: Asymmetry *15 (2004) 3131*



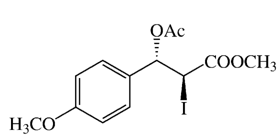
$C_{14}H_{17}BrO_5$

(2*S*,3*S*)-Ethyl-3-acetoxy-2-bromo-3-(4-methoxyphenyl)propanoate

Ee = 96.5% (HPLC analysis)
$[\alpha]_D^{25} = +53.2$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: 2*S*,3*S*

Naveen Anand, Munish Kapoor, Surrinder Koul, Subhash C. Taneja,* Rattan L. Sharma and Ghulam N. Qazi

Tetrahedron: Asymmetry *15 (2004) 3131*



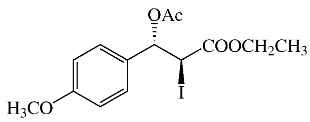
$C_{13}H_{15}IO_5$

(2*S*,3*S*)-Methyl-3-acetoxy-2-iodo-3-(4-methoxyphenyl)propanoate

Ee = 75% (HPLC analysis)
$[\alpha]_D^{25} = +50.5$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: 2*S*,3*S*

Naveen Anand, Munish Kapoor, Surrinder Koul, Subhash C. Taneja,* Rattan L. Sharma and Ghulam N. Qazi

Tetrahedron: Asymmetry *15 (2004) 3131*



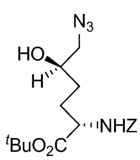
$C_{14}H_{17}IO_5$

(2*S*,3*S*)-Ethyl-3-acetoxy-2-iodo-3-(4-methoxyphenyl)propanoate

Ee = 77% (HPLC analysis)
$[\alpha]_D^{25} = +49.0$ (*c* 1, $CHCl_3$)
Source of chirality: enzymatic hydrolysis
Absolute configuration: 2*S*,3*S*

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{18}H_{26}N_4O_5$

tert-Butyl (2*S*,5*R*)-6-azido-2-benzyloxycarbonylamino-5-hydroxyhexanoate

$[\alpha]_D^{25} = +10.9$ (*c* 1, $CHCl_3$)
Source of chirality: L-glutammic acid
Absolute configuration: (2*S*,5*R*)

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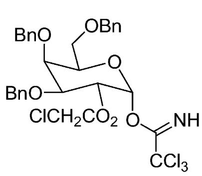
Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{31}H_{31}Cl_4NO_7$

O-(3,4,6-Tri-*O*-benzyl-2-*O*-chloroacetyl-α-D-galactopyranosyl)trichloroacetimidate

$[\alpha]_D^{25} = +66.7$ (*c* 1, $CHCl_3$)
Source of chirality: D-galactose
Absolute configuration: (1*R*,2*R*,3*S*,4*S*,5*R*)

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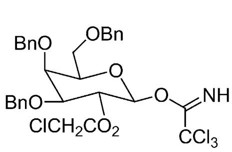
Tetrahedron: Asymmetry *15 (2004) 3139*



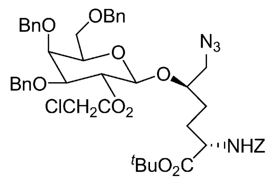
$C_{31}H_{31}Cl_4NO_7$

O-(3,4,6-Tri-*O*-benzyl-2-*O*-chloroacetyl-β-D-galactopyranosyl)trichloroacetimidate

$[\alpha]_D^{25} = +20.3$ (*c* 1, $CHCl_3$)
Source of chirality: D-galactose
Absolute configuration: (1*S*,2*R*,3*S*,4*S*,5*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{47}H_{55}ClN_4O_{11}$

tert-Butyl (2*S*,5*R*)-6-azido-2-benzyloxycarbonylamino-5-(3,4,6-tri-*O*-benzyl-2-*O*-chloroacetyl-β-D-galacto-pyranosyloxy)hexanoate

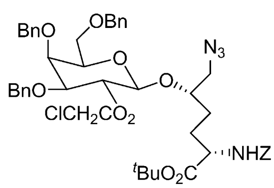
$[\alpha]_D^{25} = +7.9$ (*c* 1, $CHCl_3$)

Source of chirality: D-galactose and L-glutammic acid

Absolute configuration: (2*S*,5*R*,1′*R*,2′*R*,3′*S*,4′*S*,5′*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{47}H_{55}ClN_4O_{11}$

tert-Butyl (2*S*,5*S*)-6-azido-2-benzyloxycarbonylamino-5-(3,4,6-tri-*O*-benzyl-2-*O*-chloroacetyl-β-D-galactopyran-osyloxy)hexanoate

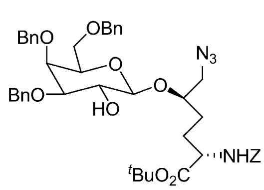
$[\alpha]_D^{25} = +1.7$ (*c* 1, $CHCl_3$)

Source of chirality: D-galactose and L-glutammic acid

Absolute configuration: (2*S*,5*S*,1′*R*,2′*R*,3′*S*,4′*S*,5′*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{45}H_{54}N_4O_{10}$

tert-Butyl (2*S*,5*R*)-6-azido-2-benzyloxycarbonylamino-5-(3,4,6-tri-*O*-benzyl-β-D-galactopyranosyloxy)hexanoate

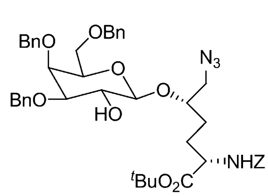
$[\alpha]_D^{25} = +0.7$ (*c* 1, $CHCl_3$)

Source of chirality: D-galactose and L-glutammic acid

Absolute configuration: (2*S*,5*R*,1′*R*,2′*R*,3′*R*,4′*S*,5′*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{45}H_{54}N_4O_{10}$

tert-Butyl (2*S*,5*S*)-6-azido-2-benzyloxycarbonylamino-5-(3,4,6-tri-*O*-benzyl-β-D-galactopyranosyloxy)hexanoate

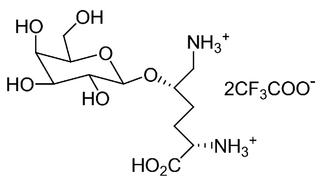
$[\alpha]_D^{33} = -1.9$ (*c* 1, $CHCl_3$)

Source of chirality: D-galactose and L-glutammic acid

Absolute configuration: (2*S*,5*S*,1′*R*,2′*R*,3′*R*,4′*S*,5′*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



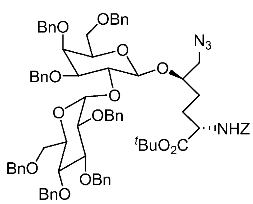
$C_{12}H_{24}N_2O_8{\cdot}2CF_3CO_2H$

(2*S*,5*S*)-2,6-Diamino-5-(β-D-galactopyranosyloxy)hexanoic acid

$[\alpha]_D^{33} = +21.3$ (*c* 1, MeOH)
Source of chirality: D-galactose and L-glutammic acid
Absolute configuration:
(2*S*,5*S*,1′*R*,2′*R*,3′*S*,4′*R*,5′*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



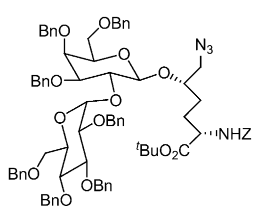
$C_{79}H_{88}N_4O_{15}$

tert-Butyl (2*S*,5*R*)-6-azido-2-benzyloxycarbonylamino-5-[(2,3,4,6-tetra-*O*-benzyl-α-D-glucopyranosyl)-(1→2)-(3,4,6-tri-*O*-benzyl-β-D-galactopyranosyloxy)]hexanoate

$[\alpha]_D^{33} = +25.6$ (*c* 1, $CHCl_3$)
Source of chirality: D-galactose, D-glucose and L-glutammic acid
Absolute configuration:
(2*S*,5*R*,1′*R*,2′*R*,3′*S*,4′*S*,5′*R*,1″*R*,2″*R*,3″*S*,4″*R*,5″*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



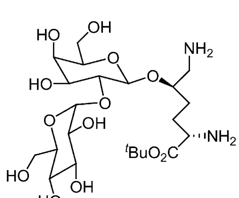
$C_{79}H_{88}N_4O_{15}$

tert-Butyl (2*S*,5*S*)-6-azido-2-benzyloxycarbonylamino-5-[(2,3,4,6-tetra-*O*-benzyl-α-D-glucopyranosyl)-(1→2)-(3,4,6-tri-*O*-benzyl-β-D-galactopyranosyloxy)]hexanoate

$[\alpha]_D^{33} = +31.7$ (*c* 1, $CHCl_3$)
Source of chirality: D-galactose, D-glucose and L-glutammic acid
Absolute configuration:
(2*S*,5*S*,1′*R*,2′*R*,3′*S*,4′*S*,5′*R*,1″*R*,2″*R*,3″*S*,4″*R*,5″*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



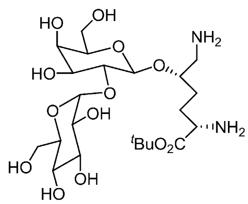
$C_{22}H_{42}N_2O_{13}$

tert-Butyl (2*S*,5*R*)-2,6-diamino-5-[α-D-glucopyranosyl-(1→2)-β-D-galactopyranosyloxy]hexanoate

$[\alpha]_D^{25} = +25.5$ (*c* 1, MeOH)
Source of chirality: D-galactose, D-glucose and L-glutammic acid
Absolute configuration:
(2*S*,5*R*,1′*R*,2′*R*,3′*S*,4′*R*,5′*R*,1″*R*,2″*R*,3″*S*,4″*R*,5″*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{22}H_{42}N_2O_{13}$

tert-Butyl (2*S*,5*S*)-2,6-diamino-5-[α-D-glucopyranosyl-(1→2)-β-D-galactopyranosyloxy]hexanoate

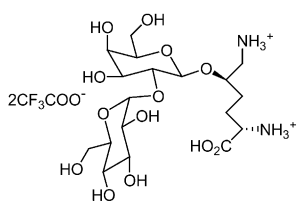
$[\alpha]_D^{25} = +41.1$ (*c* 1, MeOH)

Source of chirality: D-galactose, D-glucose and L-glutammic acid

Absolute configuration: (2*S*,5*S*,1′*R*,2′*R*,3′*S*,4′*R*,5′*R*,1″*R*,2″*R*,3″*S*, 4″*R*,5″*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{18}H_{34}N_2O_{13}\cdot 2CF_3CO_2H$

(2*S*,5*R*)-2,6-Diamino-5-[α-D-glucopyranosyl-(1→2)-β-D-galactopyranosyloxy]hexanoic acid

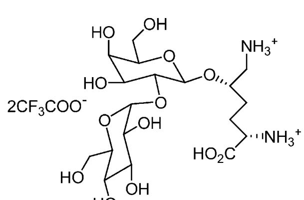
$[\alpha]_D^{25} = +21.9$ (*c* 1, MeOH)

Source of chirality: D-galactose, D-glucose and L-glutammic acid

Absolute configuration: (2*S*,5*R*,1′*R*,2′*R*,3′*S*,4′*R*,5′*R*,1″*R*,2″*R*,3″*S*,4″*R*,5″*R*)

Pietro Allevi,* Rita Paroni, Andrea Ragusa and Mario Anastasia

Tetrahedron: Asymmetry *15 (2004) 3139*



$C_{18}H_{34}N_2O_{13}\cdot 2CF_3CO_2H$

(2*S*,5*S*)-2,6-Diamino-5-[α-D-glucopyranosyl-(1→2)-β-D-galactopyranosyloxy]hexanoic acid

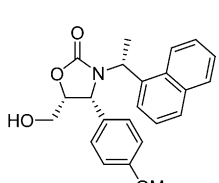
$[\alpha]_D^{25} = +33.4$ (*c* 1, MeOH)

Source of chirality: D-galactose, D-glucose and L-glutammic acid

Absolute configuration: (2*S*,5*S*,1′*R*,2′*R*,3′*S*,4′*R*,5′*R*,1″*R*,2″*R*,3″*S*,4″*R*,5″*R*)

Shigeo Sugiyama,* Satoshi Arai and Keitaro Ishii*

Tetrahedron: Asymmetry *15 (2004) 3149*



$C_{23}H_{24}NO_4$

(4*R*,5*R*)-5-Hydroxymethyl-4-(4-methoxyphenyl)-3-[(*R*)-1-(1-naphthyl)ethyl]oxazolidin-2-one

Ee >98%

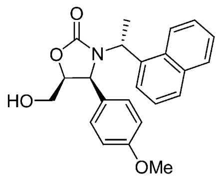
$[\alpha]_D^{30} = -104.9$ (*c* = 1.7, $CHCl_3$)

Source of chirality: (*R*)-1-(1-naphthyl)ethylamine

Absolute configuration: (4*R*,5*R*,1′*R*)

Shigeo Sugiyama,* Satoshi Arai and Keitaro Ishii*

Tetrahedron: Asymmetry *15 (2004) 3149*



$C_{23}H_{24}NO_4$

(4*S*,5*R*)-5-Hydroxymethyl-4-(4-methoxyphenyl)-3-[(*R*)-1-(1-naphthyl)ethyl]oxazolidin-2-one

Ee >98%

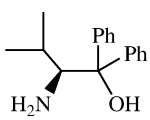
$[\alpha]_D^{30} = +7.4$ (c = 1.4, $CHCl_3$)

Source of chirality: (*R*)-1-(1-naphthyl)ethylamine

Absolute configuration: (4*S*,5*S*,1′*R*)

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*



$C_{17}H_{21}NO$

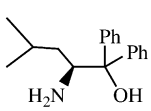
(*S*)-2-Amino-3-methyl-1,1-diphenylbutan-1-ol

$[\alpha]_D^{18} = -124.0$ (c 1.27, $CHCl_3$)

Source of chirality: (*S*)-valine

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*



$C_{18}H_{23}NO$

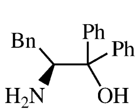
(*S*)-2-Amino-4-methyl-1,1-diphenylpentan-1-ol

$[\alpha]_D^{18} = -105.0$ (c 1.36, $CHCl_3$)

Source of chirality: (*S*)-leucine

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*



$C_{21}H_{21}NO$

(*S*)-2-Amino-1,1,3-triphenylpropan-1-ol

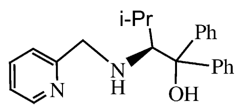
$[\alpha]_D^{18} = -85.0$ (c 1.10, $CHCl_3$)

Source of chirality: (*S*)-phenylalanine

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan
and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*

$[\alpha]_D^{21} = -63.0$ (c 1.01, CH_2Cl_2)
Source of chirality: (S)-valine

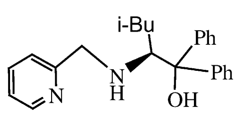


$C_{23}H_{26}N_2O$
(S)-3-Methyl-2-[(2-pyridylmethyl)amino]-1,1-diphenylbutan-1-ol

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan
and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*

$[\alpha]_D^{25} = -45$ (c 0.97, CH_2Cl_2)
Source of chirality: (S)-leucine

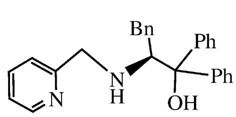


$C_{24}H_{28}N_2O$
(S)-4-Methyl-2-[(2-pyridylmethyl)amino]-1,1-diphenylpentan-1-ol

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan
and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*

$[\alpha]_D^{25} = -40$ (c 1.1, CH_2Cl_2)
Source of chirality: (S)-phenylalanine

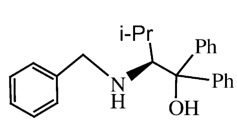


$C_{27}H_{26}N_2O$
(S)-2-[(2-Pyridylmethyl)amino]-1,1,3-triphenylpropan-1-ol

Yong-Feng Kang, Lei Liu, Rui Wang,* Wen-Jin Yan
and Yi-Feng Zhou

Tetrahedron: Asymmetry *15 (2004) 3155*

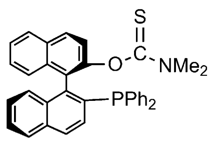
$[\alpha]_D^{25} = 34$ (c 1.24, CH_2Cl_2)
Source of chirality: (S)-valine



$C_{24}H_{27}NO$
(S)-3-Methyl-2-benzylamino-1,1-diphenylbutan-1-ol

Wen Zhang, Qin Xu and Min Shi*

Tetrahedron: Asymmetry *15 (2004) 3161*



$C_{35}H_{28}NOPS$

(*R*)-(−)-2-(Diphenylphosphanyl)-1,1′-binaphthyl-2′-ol-*N*,*N*-dimethylthiocarbamate

Ee = 100%

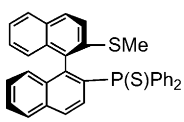
$[\alpha]_D^{20} = -17.3$ (*c* 0.96, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)

Wen Zhang, Qin Xu and Min Shi*

Tetrahedron: Asymmetry *15 (2004) 3161*



$C_{33}H_{25}PS_2$

(*R*)-(+)-2-(Diphenylphosphinothioyl)-2′-methylsulfanyl-1,1′-binaphthalenyl

Ee = 100%

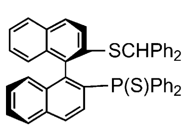
$[\alpha]_D^{20} = +163.7$ (*c* 0.865, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)

Wen Zhang, Qin Xu and Min Shi*

Tetrahedron: Asymmetry *15 (2004) 3161*



$C_{45}H_{33}PS_2$

(*R*)-(+)-2-(Diphenylphosphinothioyl)-2′-benzhydrylsulfanyl-1,1′-binaphthalenyl

Ee = 100%

$[\alpha]_D^{20} = +42.8$ (*c* 0.835, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)

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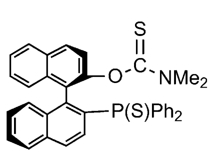

$C_{35}H_{28}NOPS_2$

(*R*)-(−)-2-(Diphenylphosphinothioyl)-1,1′-binaphthyl-2′-ol-*N*,*N*-dimethylthiocarbamate

Ee = 100%

$[\alpha]_D^{20} = -165.5$ (*c* 0.785, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)

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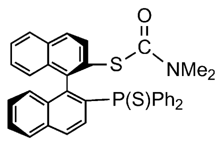

$C_{35}H_{28}NOPS_2$

(*R*)-(+)-2-(Diphenylphosphinothioyl)-1,1′-binaphthyl-2′-thiol-*N*,*N*-dimethylthiocarbamate

Ee = 100%

$[\alpha]_D^{20} = +6.4$ (*c* 1.29, $CHCl_3$)

Source of chirality: resolution

Absolute configuration: (*R*)