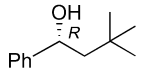
Takanori Shibata,* Kimiko Iwahashi, Tsuneomi Kawasaki and Kenso Soai

Tetrahedron: Asymmetry *18 (2007) 1759*



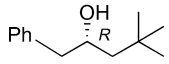
$C_{12}H_{18}O$

3,3-Dimethyl-1-phenylbutan-1-ol

Ee = 95.5% (HPLC, Chiralpak OD–H)
$[\alpha]_D^{28} = +61.9$ (*c* 0.10, $CHCl_3$)
Source of chirality: resolution
Absolute configuration: modified Mosher method

Takanori Shibata,* Kimiko Iwahashi, Tsuneomi Kawasaki and Kenso Soai

Tetrahedron: Asymmetry *18 (2007) 1759*



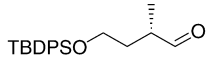
$C_{13}H_{20}O$

4,4-Dimethyl-1-phenylpentan-2-ol

Ee = 96.6% (HPLC, Chiralpak OD–H)
$[\alpha]_D^{23} = +5.9$ (*c* 0.47, $CHCl_3$)
Source of chirality: resolution
Absolute configuration: modified Mosher method

Makoto Ojika,* Jianhua Qi, Yuko Kito and Youji Sakagami

Tetrahedron: Asymmetry *18 (2007) 1763*



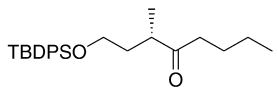
$C_{21}H_{28}O_2Si$

(*S*)-4-[(*tert*-Butyldiphenylsilyl)oxy]-2-methylbutanal

Ee = 100%
$[\alpha]_D^{28} = +10$ (*c* 0.13, $CHCl_3$)
Source of chirality: commercial starting material
Absolute configuration: (*S*)

Makoto Ojika,* Jianhua Qi, Yuko Kito and Youji Sakagami

Tetrahedron: Asymmetry *18 (2007) 1763*



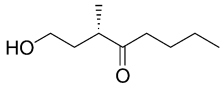
$C_{25}H_{36}O_2Si$

(*S*)-1-[(*tert*-Butyldiphenylsilyl)oxy]-3-methyl-4-octanone

Ee = 100%
$[\alpha]_D^{26} = +8.0$ (*c* 0.13, $CHCl_3$)
Source of chirality: commercial starting material
Absolute configuration: (*S*)

Makoto Ojika,* Jianhua Qi, Yuko Kito and Youji Sakagami

Tetrahedron: Asymmetry *18 (2007) 1763*



$C_9H_{18}O_2$

(*S*)-1-Hydroxy-3-methyl-4-octanone

Ee = 100%

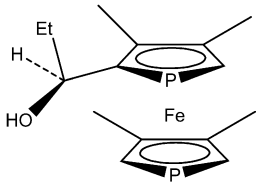
$[\alpha]_D^{25} = -7.7$ (*c* 0.25, $CHCl_3$)

Source of chirality: commercial starting material

Absolute configuration: (*S*)

Bartosz Mucha, Arkadiusz Kłys, Agnieszka Rybarczyk-Pirek and Janusz Zakrzewski*

Tetrahedron: Asymmetry *18 (2007) 1766*



$C_{15}H_{22}OP_2$

(S,S_p)-1-(3,3′,4,4′-Tetramethyl-1,1′-diphosphaferrocen-2-yl)propan-1-ol

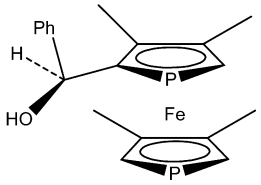
$[\alpha]_D^{20} = +30$ (*c* 0.22, $CHCl_3$)

Source of chirality: enantiomerically pure starting material

Absolute configuration: (S,S_p)

Bartosz Mucha, Arkadiusz Kłys, Agnieszka Rybarczyk-Pirek and Janusz Zakrzewski*

Tetrahedron: Asymmetry *18 (2007) 1766*



$C_{19}H_{22}OP_2$

(S,S_p)-Phenyl-(3,3′,4,4′-tetramethyl-1,1′-diphosphaferrocen-2-yl)methanol

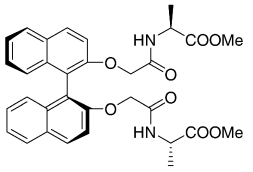
$[\alpha]_D^{20} = +22$ (*c* 0.2, $CHCl_3$)

Source of chirality: enantiomerically pure starting material

Absolute configuration: (S,S_p)

Haijuan Qin, Yongbing He,* Chenguang Hu, Zhihong Chen and Ling Hu

Tetrahedron: Asymmetry *18 (2007) 1769*



$C_{32}H_{32}N_2O_8$

(*S*)-2-(2-{2′-[((*S*)-1-Methoxycarbonyl-ethylcarbamoyl)-methoxy]-(*S*)-[1,1′]-binaphthalenyl-2-yloxy}-acetylamino)-propionic acid methyl ester

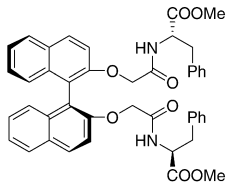
$[\alpha]_D^{20} = -77.0$ (*c* 0.05, $CHCl_3$)

Source of chirality: staring material

Absolute configuration, (S_a,S,S)

Haijuan Qin, Yongbing He,* Chenguang Hu, Zhihong Chen and Ling Hu

Tetrahedron: Asymmetry *18 (2007) 1769*



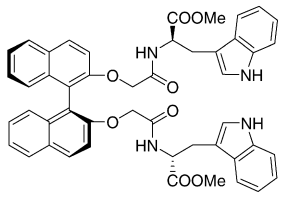
$[\alpha]_D^{20} = -37.6$ (c 0.05, $CHCl_3$)
Source of chirality: staring material
Absolute configuration, (S_a,S,S)

$C_{44}H_{40}N_2O_8$

(S)-2-(2-{2′-[((S)-1-Methoxycarbonyl-2-phenyl-ethylcarbamoyl)-methoxy]-(S)-[1,1′]binaphthalenyl-2-yloxy}-acetylamino)-3-phenyl-propionic acid methyl ester

Haijuan Qin, Yongbing He,* Chenguang Hu, Zhihong Chen and Ling Hu

Tetrahedron: Asymmetry *18 (2007) 1769*



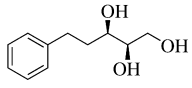
$[\alpha]_D^{20} = +24.4$ (c 0.05, $CHCl_3$)
Source of chirality: staring material
Absolute configuration, (S_a,S,S)

$C_{48}H_{42}N_4O_8$

(S)-3-(1H-Indol-3-yl)-2-[2-(2′-{[(S)-2-(1H-indol-3-yl)-1-methoxycarbonyl-ethylcarbamoyl]-methoxy}-(S)-[1,1′]binaphthalenyl-2-yloxy)-acetylamino]-propionic acid methyl ester

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*



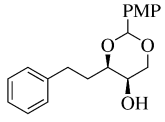
$[\alpha]_D^{23.5} = +20.2$ (c 1.8, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation

$C_{11}H_{16}O_3$

5-Phenylpentane-1,2,3-triol

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*



$[\alpha]_D^{23.5} = +75.9$ (c 2.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation

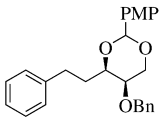
$C_{19}H_{22}O_4$

(5R,6R)-2-(4-Methoxyphenyl)-4-phenethyl-[1,3]dioxan-5-ol

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*

$[\alpha]_D^{26} = +57.75$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation

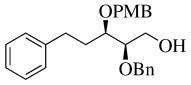


$C_{26}H_{28}O_4$
(5*R*,6*R*)-5-Benzyloxy-2-(4-methoxyphenyl)-6-phenethyl-[1,3]dioxane

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*

$[\alpha]_D^{23.5} = +25.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation

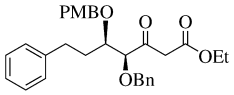


$C_{26}H_{30}O_4$
(2*R*,3*R*)-2-Benzyloxy-3-(4-methoxybenzyloxy)-5-phenylpentan-1-ol

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*

$[\alpha]_D^{23.5} = -21.0$ (*c* 1.2, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation

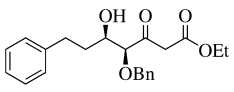


$C_{30}H_{34}O_6$
(4*S*,5*R*)-4-Benzyloxy-(4-methoxybenzyloxy)-3-oxo-7-phenylheptanoicacidethylester

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*

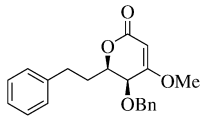
$[\alpha]_D^{23.5} = -40.6$ (*c* 1.0, $CHCl_3$)
Source of chirality: Sharpless asymmetric dihydroxylation



$C_{22}H_{26}O_5$
(4*S*,5*R*)-4-Benzyloxy-5-hydroxy-3-oxo-7-pheny-heptanoicacidethylester

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*



$C_{21}H_{22}O_4$

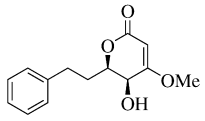
(5*S*,6*R*)-5-Benzyloxy-4-methoxy-6-phenethyl-5,6-dihydro-2*H*-pyran-2-one

$[\alpha]_D^{26} = -120.5$ (*c* 4.5, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*



$C_{14}H_{16}O_4$

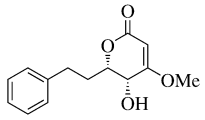
(5*S*,6*R*)-5-Hydroxy-4-methoxy-6-phenethyl-5,6-dihydro-2*H*-pyran-2-one

$[\alpha]_D^{26} = -62.5$ (*c* 2.0, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation

Ahmed Kamal,* Tadiparthi Krishnaji and P. Venkat Reddy

Tetrahedron: Asymmetry *18 (2007) 1775*



$C_{14}H_{16}O_4$

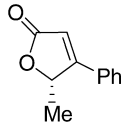
(5*R*,6*S*)-5-Hydroxy-4-methoxy-6-phenethyl-5,6-dihydro-2*H*-pyran-2-one

$[\alpha]_D^{23.5} = +61.0$ (*c* 2.0, $CHCl_3$)

Source of chirality: Sharpless asymmetric dihydroxylation

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{11}H_{10}O_2$

(*S*)-(+)-5-Methyl-4-phenylfuran-2-(5*H*)-one

Ee >99%

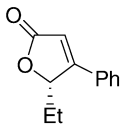
$[\alpha]_D^{20} = +200$ (*c* 0.35, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-propan-1-one

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*

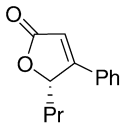


$C_{12}H_{12}O_2$
(*S*)-(+)-5-Ethyl-4-phenylfuran-2-(5*H*)-one

Ee = 94%
$[\alpha]_D^{20} = +160$ (*c* 0.45, $CHCl_3$)
Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-butan-1-one
Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*

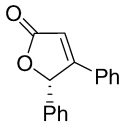


$C_{13}H_{14}O_2$
(*S*)-(+)-5-Propyl-4-phenylfuran-2-(5*H*)-one

Ee = 84%
$[\alpha]_D^{20} = +148$ (*c* 0.15, $CHCl_3$)
Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-pentan-1-one
Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*

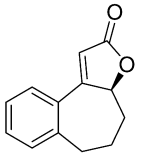


$C_{16}H_{12}O_2$
(*S*)-(+)-4,5-Diphenylfuran-2-(5*H*)-one

Ee = 74%
$[\alpha]_D^{20} = +101$ (*c* 0.1, $CHCl_3$)
Source of chirality: (*S*)-(+)-2-hydroxy-1,2-diphenyl-ethanone
Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*

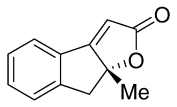


$C_{13}H_{12}O_2$
(*S*)-(−)-3a,4,5,6-Tetrahydro-2*H*-benzo[3,4]cyclohepta[1,2-*b*]furan-2-one

Ee = 83%
$[\alpha]_D^{20} = -187$ (*c* 0.17, $CHCl_3$)
Source of chirality: (*S*)-(+)-6,7,8,9-tetrahydro-6-hydroxy-5*H*-benzocyclohepten-5-one
Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{12}H_{10}O_2$

(*R*)-(+)-8a-Methyl-8,8a-dihydro-2*H*-inden[2,1-*b*]furan-2-one

Ee = 94%

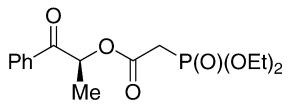
$[\alpha]_D^{20} = +14.0$ (*c* 0.2, $CHCl_3$)

Source of chirality: (*R*)-(+)-2-hydroxy-2-methyl 1-indanone

Absolute configuration: (*R*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{15}H_{21}O_6P$

(*S*)-(−)-1-Methyl-2-oxo-2-phenylethyl(diethoxyphosphoryl)acetate

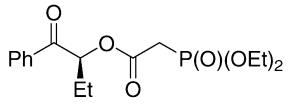
$[\alpha]_D^{20} = -30.1$ (*c* 2.8, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-propan-1-one

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{16}H_{23}O_6P$

(*S*)-(−)-1-Benzoylpropyl(diethoxyphosphoryl)acetate

Ee = 93%

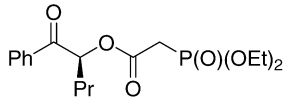
$[\alpha]_D^{20} = -16.6$ (*c* 0.2, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-butan-1-one

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{17}H_{25}O_6P$

(*S*)-(−)-1-Benzoylbutyl(diethoxyphosphoryl)acetate

Ee = 85%

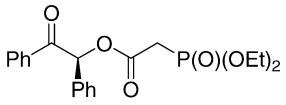
$[\alpha]_D^{20} = -11.7$ (*c* 0.17, $CHCl_3$)

Source of chirality: (*S*)-(−)-2-hydroxy-1-phenyl-1-pentan-1-one

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{20}H_{23}O_6P$

(*S*)-(+)-2-Oxo-1,2-diphenylethyl(diethoxyphosphoryl)acetate

Ee = 82%

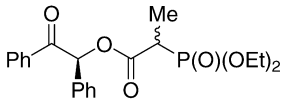
$[\alpha]_D^{20} = +73.5$ (*c* 0.21, $CHCl_3$)

Source of chirality: (*S*)-(+)-2-hydroxy-1,2-diphenyl-ethanone

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{21}H_{25}O_6P$

(+)-2-Oxo-1,2-diphenylethyl-2-(diethoxyphosphoryl)propanate

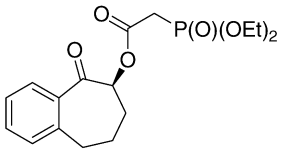
Ee = 75% (major isomer), 85% (minor isomer)

$[\alpha]_D^{20} = +78.2$ (*c* 1.28, $CHCl_3$)

Source of chirality: (*S*)-(+)-2-hydroxy-1,2-diphenyl-ethanone

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{17}H_{23}O_6P$

(*S*)-(−)-5-Oxo-6,7,8,9-tetrahydro-5*H*-benzo[7]annulen-6-yl 2-(diethoxyphosphoryl)acetate

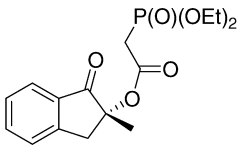
$[\alpha]_D^{20} = -2.05$ (*c* 1.4, $CHCl_3$)

Source of chirality: (*S*)-(+)-6,7,8,9-tetrahydro-6-hydroxy-5*H*-benzocyclohepten-5-one

Absolute configuration: (*S*)

Ewa Krawczyk,* Marek Koprowski and Jerzy Łuczak

Tetrahedron: Asymmetry *18 (2007) 1780*



$C_{16}H_{21}O_6P$

(*R*)-(−)-2-Methyl-1-oxo-2,3-dihydro-1*H*-inden-2-yl 2-(diethoxyphosphoryl)acetate

Ee = 69%

$[\alpha]_D^{20} = -15.0$ (*c* 0.5, $CHCl_3$)

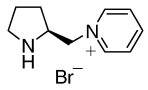
Source of chirality: (*R*)-(+)-2-hydroxy-2-methyl 1-indanone

Absolute configuration: (*R*)

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

$[\alpha]_D^{20} = -6.1$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)

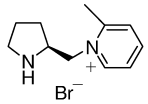


$C_{10}H_{15}N_2Br$
(*S*)-(+)-1-Pyrrolidin-2-ylmethyl-pyridinium bromide

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

$[\alpha]_D^{20} = -3.9$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)

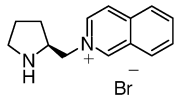


$C_{11}H_{17}N_2Br$
(*S*)-(+)-2-Methyl-1-pyrrolidin-2-ylmethyl-pyridinium bromide

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

$[\alpha]_D^{20} = -16.1$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)

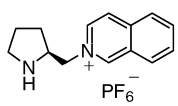


$C_{14}H_{17}N_2Br$
(*S*)-(+)-2-Pyrrolidin-2-ylmethyl-isoquinolinium bromide

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

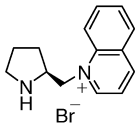
$[\alpha]_D^{20} = -12.6$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)



$C_{14}H_{17}F_6N_2P$
(*S*)-(+)-2-Pyrrolidin-2-ylmethyl-isoquinolinium hexafluorophosphate

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

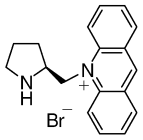


$[\alpha]_D^{20} = -4.5$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)

$C_{14}H_{17}N_2Br$
(*S*)-(+)-1-Pyrrolidin-2-ylmethyl-quinolinium bromide

Dan-Qian Xu, Bing-Tao Wang, Shu-Ping Luo, Hua-Dong Yue, Li-Ping Wang and Zhen-Yuan Xu*

Tetrahedron: Asymmetry *18 (2007) 1788*

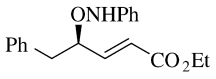


$[\alpha]_D^{20} = -7.35$ (c 2, MeOH)
Source of chirality: (*S*)-proline
Absolute configuration: (*S*)

$C_{18}H_{19}N_2Br$
(*S*)-(+)-10-Pyrrolidin-2-ylmethyl-acridinium bromide

Shriram P. Kotkar, Gurunath S. Suryavanshi and Arumugam Sudalai*

Tetrahedron: Asymmetry *18 (2007) 1795*

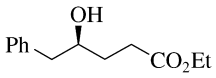


$[\alpha]_D^{25} = +47$ (c 1, $CHCl_3$)
Source of chirality: α-aminooxylation
Absolute configuration: (*R*)

$C_{19}H_{21}NO_3$
(*R*)-Ethyl 4-anilinoxy-5-phenylpent-2-enoate

Shriram P. Kotkar, Gurunath S. Suryavanshi and Arumugam Sudalai*

Tetrahedron: Asymmetry *18 (2007) 1795*

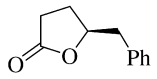


$[\alpha]_D^{25} = +14.54$ (c 1, $CHCl_3$)
Source of chirality: α-aminooxylation
Absolute configuration: (*S*)

$C_{13}H_{18}O_3$
(*S*)-Ethyl 4-hydroxy-5-phenylpentanoate

Shriram P. Kotkar, Gurunath S. Suryavanshi and Arumugam Sudalai*

Tetrahedron: Asymmetry *18 (2007) 1795*



$C_{11}H_{12}O_2$

(*S*)-5-Benzyl-dihydrofuran-2(3*H*)-one

Ee = 97% (HPLC)

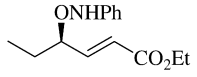
$[\alpha]_D^{25} = +24.7$ (*c* 1, $CHCl_3$)

Source of chirality: α-aminooxylation

Absolute configuration: (*S*)

Shriram P. Kotkar, Gurunath S. Suryavanshi and Arumugam Sudalai*

Tetrahedron: Asymmetry *18 (2007) 1795*



$C_{14}H_{19}NO_3$

(*R*)-Ethyl 4-anilinoxyhex-2-enoate

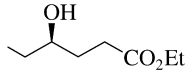
$[\alpha]_D^{25} = +88$ (*c* 2, $CHCl_3$)

Source of chirality: α-aminooxylation

Absolute configuration: (*R*)

Shriram P. Kotkar, Gurunath S. Suryavanshi and Arumugam Sudalai*

Tetrahedron: Asymmetry *18 (2007) 1795*



$C_8H_{16}O_3$

(*R*)-Ethyl 4-hydroxyhexanoate

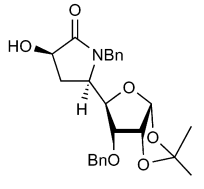
$[\alpha]_D^{25} = +27$ (*c* 2, $CHCl_3$)

Source of chirality: α-aminooxylation

Absolute configuration: (*R*)

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{29}NO_6$

(3*R*,5*R*)-1-Benzyl-5-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-3-hydroxy-2-oxopyrrolidine

$[\alpha]_D^{26} = +52.9$ (*c* 0.50, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (3*R*,5*R*,1′*R*,2′*R*,3′*R*,4′*R*) assigned by X-ray crystallographic analysis

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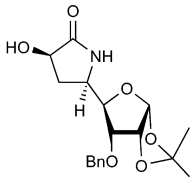
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{23}NO_6$

$[\alpha]_D^{26} = +16$ (*c* 1.0, CH_2Cl_2)

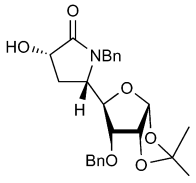
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(3*R*,5*R*)-5-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-3-hydroxy-2-oxopyrrolidine

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{29}NO_6$

$[\alpha]_D^{26} = +34.8$ (*c* 0.325, CH_2Cl_2)

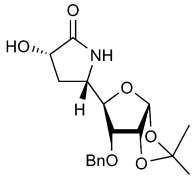
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (3*S*,5*S*,1′*R*,2′*R*,3′*R*,4′*R*) assigned by X-ray crystallographic analysis

(3*S*,5*S*)-1-Benzyl-5-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-3-hydroxy-2-oxopyrrolidine

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{23}NO_6$

$[\alpha]_D^{26} = +36$ (*c* 1.0, CH_2Cl_2)

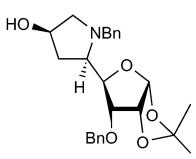
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(3*S*,5*S*)-5-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-3-hydroxy-2-oxopyrrolidine

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{31}NO_5$

$[\alpha]_D^{26} = +73$ (*c* 1.0, CH_2Cl_2)

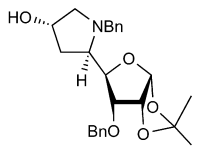
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(2*R*,4*R*)-1-Benzyl-2-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{31}NO_5$

(2*R*,4*S*)-1-Benzyl-2-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

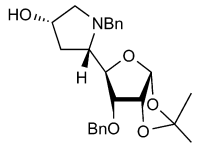
$[\alpha]_D^{26} = +13.1$ (*c* 1.5, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{31}NO_5$

(2*S*,4*S*)-1-Benzyl-2-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

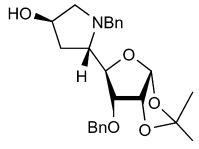
$[\alpha]_D^{26} = +13$ (*c* 0.3, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{25}H_{31}NO_5$

(2*S*,4*R*)-1-Benzyl-2-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

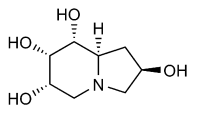
$[\alpha]_D^{26} = +4$ (*c* 0.25, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_8H_{15}NO_4$

(2*R*,6*S*,7*S*,8*R*,8a*R*)-2,6,7,8-Tetrahydroxyindolizidine

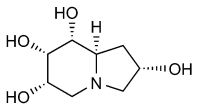
$[\alpha]_D^{26} = -0.4$ (*c* 0.75, CH_3OH)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (2*R*,6*S*,7*S*,8*R*,8a*R*)

Mª Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_8H_{15}NO_4$

(2*S*,6*S*,7*S*,8*R*,8a*R*)-2,6,7,8-Tetrahydroxyindolizidine

$[\alpha]_D^{26} = +0.2$ (*c* 1.35, CH_3OH)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (2*S*,6*S*,7*S*,8*R*,8a*R*)

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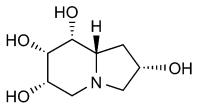
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_8H_{15}NO_4$

(2*S*,6*S*,7*S*,8*R*,8a*S*)-2,6,7,8-Tetrahydroxyindolizidine

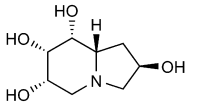
$[\alpha]_D^{26} = +0.2$ (*c* 0.5, CH_3OH)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (2*S*,6*S*,7*S*,8*R*,8a*S*)

Mª Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_8H_{15}NO_4$

(2*R*,6*S*,7*S*,8*R*,8a*S*)-2,6,7,8-Tetrahydroxyindolizidine

$[\alpha]_D^{26} = -1.2$ (*c* 1.0, CH_3OH)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

Absolute configuration: (2*R*,6*S*,7*S*,8*R*,8a*S*)

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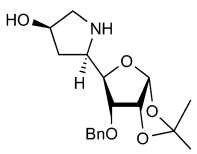
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{25}NO_5$

(2*R*,4*R*)-2-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

$[\alpha]_D^{26} = +82.3$ (*c* 0.875, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

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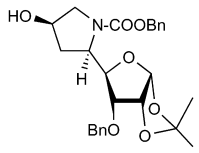
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{26}H_{31}NO_7$

$[\alpha]_D^{26} = +44.7$ (c 0.45, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-ribofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(2*R*,4*R*)-2-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*ribo*-tetrofuranos-4-yl)-1-benzyloxycarbonyl-4-hydroxypyrrolidine

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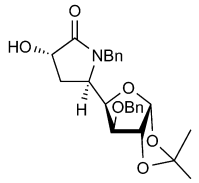
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{23}NO_6$

$[\alpha]_D^{26} = -109$ (c 0.875, CH_2Cl_2)

Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-xylofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(3*S*,5*R*)-5-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*xylo*-tetrofuranos-4-yl)-3-hydroxy-2-oxopyrrolidine

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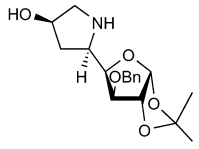
Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{25}NO_5$

$[\alpha]_D^{26} = -40$ (c 0.2, CH_2Cl_2)

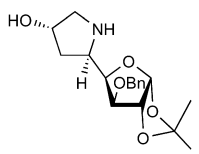
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-xylofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(2*R*,4*R*)-2-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*xylo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

M[a] Isabel Torres-Sánchez, Pastora Borrachero, Francisca Cabrera-Escribano, Manuel Gómez-Guillén,* Manuel Angulo-Álvarez, Eleuterio Álvarez, Sylvain Favre and Pierre Vogel

Tetrahedron: Asymmetry *18 (2007) 1809*



$C_{18}H_{25}NO_5$

$[\alpha]_D^{26} = -31.7$ (c 0.45, CH_2Cl_2)

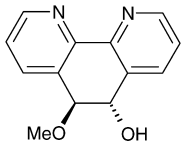
Source of chirality: (*Z*)-*N*-benzyl-(3-*O*-benzyl-1,2-*O*-isopropylidene-α-D-xylofuranos-5-ylidene)amine N-oxide and asymmetric synthesis

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

(2*R*,4*S*)-2-(3-*O*-Benzyl-1,2-*O*-isopropylidene-α-D-*xylo*-tetrofuranos-4-yl)-4-hydroxypyrrolidine

Claudia Sanfilippo* and Giovanni Nicolosi

Tetrahedron: Asymmetry *18 (2007) 1828*



Ee = 97%
$[\alpha]_D^{25} = +93.2$ (*c* 0.43, CH_3OH)
Source of chirality: enzymatic resolution
Absolute configuration: 5*S*,6*S*,*M*

$C_{13}H_{12}N_2O_2$
(5*S*,6*S*,*M*)-Dihydro-5-hydroxy-6-methoxy-1,10-phenanthroline

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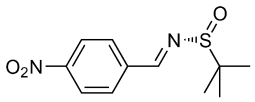
Tetrahedron: Asymmetry *18 (2007) 1833*

$[\alpha]_D^{20} = -58.0$ (*c* 2.5, $CHCl_3$)



$C_{11}H_{14}N_2O_3S$
(*R*,*E*)-2-Methyl-*N*-(4-nitrobenzylidene)propane-2-sulfinamide

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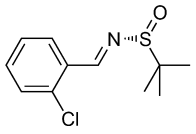
Tetrahedron: Asymmetry *18 (2007) 1833*

$[\alpha]_D^{20} = -195.6$ (*c* 4.3, $CHCl_3$)



$C_{11}H_{14}NOSCl$
(*R*,*E*)-*N*-(2-Chlorobenzylidene)-2-methylpropane-2-sulfinamide

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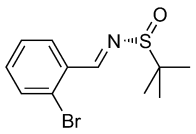
Tetrahedron: Asymmetry *18 (2007) 1833*

$[\alpha]_D^{20} = -207.2$ (*c* 3.1, $CHCl_3$)



$C_{11}H_{14}NOSBr$
(*R*,*E*)-*N*-(2-Bromobenzylidene)-2-methylpropane-2-sulfinamide

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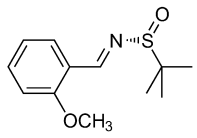
Tetrahedron: Asymmetry *18 (2007) 1833*

$[\alpha]_D^{20} = -230.4$ (*c* 1.9, $CHCl_3$)



$C_{12}H_{17}NO_2S$

(*R*,*E*)-*N*-(2-Methoxybenzylidene)-2-methylpropane-2-sulfinamide

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Tetrahedron: Asymmetry *18 (2007) 1833*

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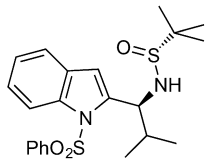
$[\alpha]_D^{20} = +145.3$ (*c* 1.8, $CHCl_3$)



$C_{22}H_{28}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*iso*-propanyl)methane]-2-*tert*-butanesulfinamide

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Tetrahedron: Asymmetry *18 (2007) 1833*

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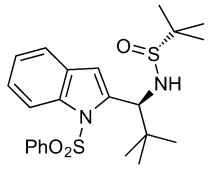
$[\alpha]_D^{20} = +211.2$ (*c* 2.9, $CHCl_3$)



$C_{23}H_{30}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*tert*-butyl)methane]-2-*tert*-butanesulfinamide

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Tetrahedron: Asymmetry *18 (2007) 1833*

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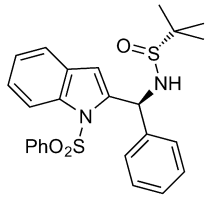
$[\alpha]_D^{20} = +38.0$ (*c* 2.0, $CHCl_3$)



$C_{25}H_{26}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)phenylmethane]-2-*tert*-butanesulfinamide

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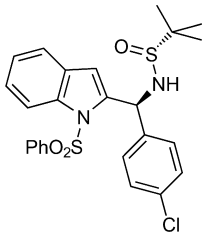
Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

$[\alpha]_D^{20} = +46.7$ (*c* 0.6, $CHCl_3$)

$C_{25}H_{25}N_2O_3S_2Cl$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-chlorophenyl)methane]-2-*tert*-butanesulfinamide

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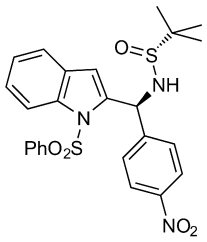
Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

$[\alpha]_D^{20} = +67.7$ (*c* 2.7, $CHCl_3$)

$C_{25}H_{25}N_5O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-nitrophenyl)methane]-2-*tert*-butanesulfinamide

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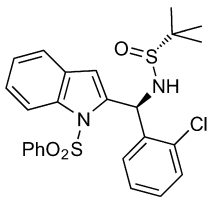
Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

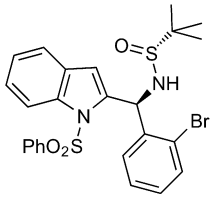
$[\alpha]_D^{20} = +23.4$ (*c* 1.0, $CHCl_3$)

$C_{25}H_{25}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*o*-chlorophenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

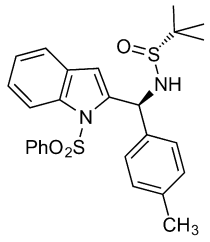
$[\alpha]_D^{20} = +38.3$ (*c* 2.2, $CHCl_3$)

$C_{25}H_{25}BrN_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*o*-bromophenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

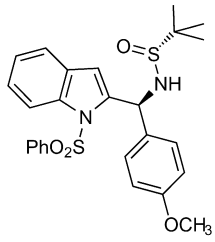
$[\alpha]_D^{20} = +54.9$ (*c* 2.6, $CHCl_3$)

$C_{26}H_{28}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-methylphenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

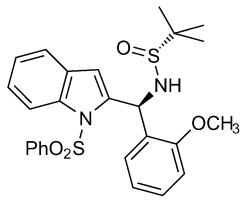
$[\alpha]_D^{20} = +51.9$ (*c* 1.1, $CHCl_3$)

$C_{26}H_{28}N_2O_4S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-methoxyphenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

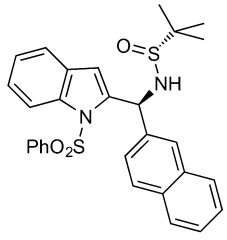
$[\alpha]_D^{20} = -20.9$ (*c* 2.8, $CHCl_3$)

$C_{26}H_{28}N_2O_4S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*o*-methoxyphenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

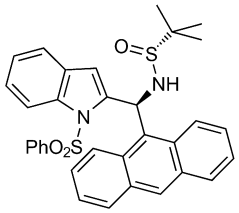
$[\alpha]_D^{20} = +17.1$ (*c* 1.2, $CHCl_3$)

$C_{29}H_{28}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)naphthylmethane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

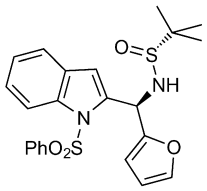
$[\alpha]_D^{20} = -69.3$ (*c* 1.0, $CHCl_3$)

$C_{33}H_{30}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(9-anthryl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

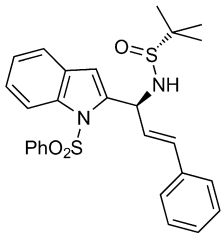
$[\alpha]_D^{20} = -16.0$ (*c* 0.9, $CHCl_3$)

$C_{23}H_{24}N_2O_4S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(fur-2-yl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

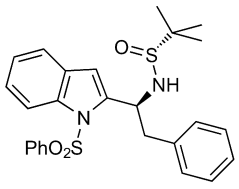
$[\alpha]_D^{20} = +6.5$ (*c* 2.2, $CHCl_3$)

$C_{27}H_{28}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)styrylmethane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr>99:1

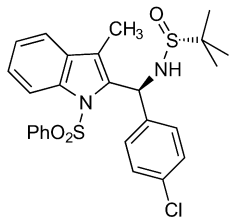
$[\alpha]_D^{20} = +4.4$ (*c* 0.2, $CHCl_3$)

$C_{26}H_{28}N_2O_3S_2$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)benzylmethane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

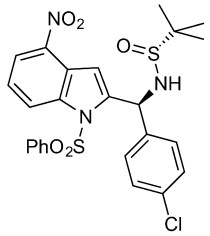
$[\alpha]_D^{20} = +93.7$ (*c* 0.8, $CHCl_3$)

$C_{26}H_{27}N_2O_3S_2Cl$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-3-methyl-indol-2-yl)(*p*-chlorophenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Dr >99:1

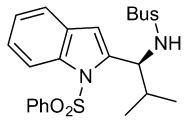
$[\alpha]_D^{20} = +144.6$ (*c* 2.0, $CHCl_3$)

$C_{25}H_{24}N_3O_5S_2Cl$

(R_S,*S*)-*N*-[(1-Phenylsulfonyl-1*H*-4-nitro-indol-2-yl)(*p*-chlorophenyl)methane]-2-*tert*-butanesulfinamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 99%

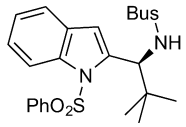
$[\alpha]_D^{20} = +42.9$ (*c* 0.9, $CHCl_3$)

$C_{22}H_{28}N_2O_4S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-2-yl)(*iso*-propanyl)methane]-*tert*-butanesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee >99%

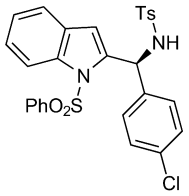
$[\alpha]_D^{20} = +134.7$ (*c* 1.5, $CHCl_3$)

$C_{23}H_{30}N_2O_4S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indole-2-yl)(*tert*-butyl)methane]-*tert*-butanesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee >99%

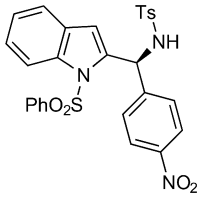
$[\alpha]_D^{20} = +122.7$ (*c* 1.5, $CHCl_3$)

$C_{28}H_{23}N_2O_4S_2Cl$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-chlorophenyl)methane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 99%

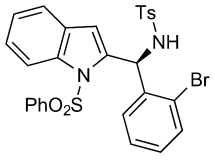
$[\alpha]_D^{20} = +103.2$ (*c* 2.8, $CHCl_3$)

$C_{28}H_{23}N_3O_6S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-nitrophenyl)methane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee >99%

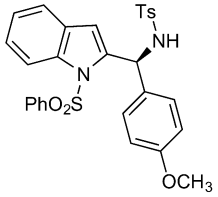
$[\alpha]_D^{20} = +52.6$ (*c* 2.3, $CHCl_3$)

$C_{28}H_{23}N_2O_4S_2Br$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*o*-bromophenyl)methyl]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 99%

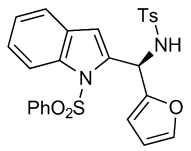
$[\alpha]_D^{20} = +78.6$ (*c* 2.0, $CHCl_3$)

$C_{29}H_{26}N_2O_5S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(*p*-methoxyphenyl)methane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 98%

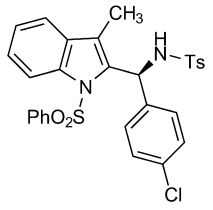
$[\alpha]_D^{20} = +64.6$ (*c* 1.3, $CHCl_3$)

$C_{26}H_{22}N_2O_5S_2$

(*R*)-*N*-[(1-Phenylsulfonyl-1*H*-indol-2-yl)(2-furyl)methyane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 98%

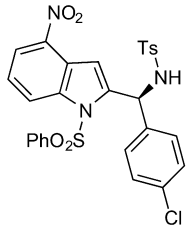
$[\alpha]_D^{20} = +117.5$ (*c* 0.6, $CHCl_3$)

$C_{29}H_{25}ClN_2O_4S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-3-methyl-indol-2-yl)(*p*-chlorophenyl)methane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 98%

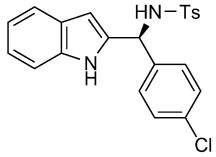
$[\alpha]_D^{20} = +77.8$ (*c* 0.7, $CHCl_3$)

$C_{28}H_{22}ClN_3O_6S_2$

(*S*)-*N*-[(1-Phenylsulfonyl-1*H*-4-nitro-indol-2-yl)(*p*-chlorophenyl)methane]-*p*-toluenesulfonamide

Liang Cheng, Li Liu,* Yong Sui, Dong Wang and Yong-Jun Chen*

Tetrahedron: Asymmetry *18 (2007) 1833*



Ee = 97%

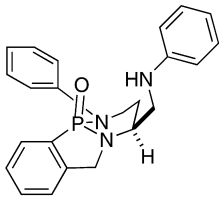
$[\alpha]_D^{20} = -24.3$ (*c* 2.8, CH_2Cl_2)

$C_{22}H_{19}N_2O_2SCl$

(*S*)-*N*-[(1*H*-Indol-2-yl)(*p*-chlorophenyl)methyl]-*p*-toluenesulfonamide

Tetsuhiro Nemoto, Tsukasa Hitomi, Hiroshi Nakamura, Long Jin, Keiichiro Hatano and Yasumasa Hamada*

Tetrahedron: Asymmetry *18 (2007) 1844*



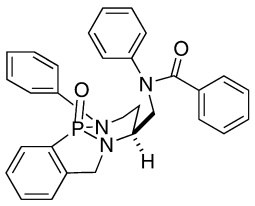
Ee = 100%
$[\alpha]_D^{23} = +335.3$ (*c* 0.25, $CHCl_3$)
Source of chirality: (*S*)-aspartic acid
Absolute configuration: (S,R_P)

$C_{23}H_{24}N_3OP$

(1*S*,4a*R*)-(4a-Oxo-4-phenyl-1,2,3,4,4a,9-hexahydro-4,9a-diaza-4aλ^5-phospha-fluoren-1-ylmethyl)-phenyl-amine

Tetsuhiro Nemoto, Tsukasa Hitomi, Hiroshi Nakamura, Long Jin, Keiichiro Hatano and Yasumasa Hamada*

Tetrahedron: Asymmetry *18 (2007) 1844*



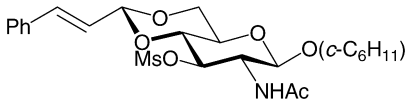
Ee = 100%
$[\alpha]_D^{23} = +68.8$ (*c* 0.83, $CHCl_3$)
Source of chirality: (*S*)-aspartic acid
Absolute configuration: (S,R_P)

$C_{30}H_{28}N_3O_2P$

(1*S*,4a*R*)-*N*-(4a-Oxo-4-phenyl-1,2,3,4,4a,9-hexahydro-4,9a-diaza-4aλ^5-phospha-fluoren-1-ylmethyl)-*N*-phenyl-benzamide

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



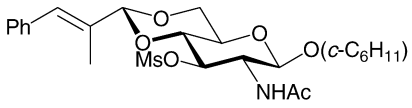
Ee = 100%
$[\alpha]_D^{25} = -72.7$ (*c* 1.0, DMF)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R,E*)-, β-D-*gluco*

$C_{24}H_{33}NO_8S$

c-Hexyl 2-acetamido-2-deoxy-3-*O*-methanosulfonyl-4,6-*O*-[(*R,E*)-3-phenyl-2-propenylidene]-β-D-glucopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



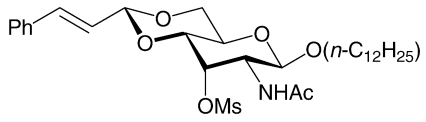
Ee = 100%
$[\alpha]_D^{25} = -14.8$ (*c* 0.9, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R,E*)-, β-D-*gluco*

$C_{25}H_{35}NO_8S$

c-Hexyl 2-acetamido-2-deoxy-3-*O*-methanosulfonyl-4,6-*O*-[(*R,E*)-2-methyl-3-phenyl-2-propenylidene]-β-D-glucopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



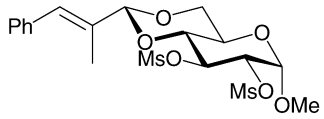
Ee = 100%
$[\alpha]_D^{25} = -72.0$ (*c* 1.0, DMF)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*allo*

$C_{30}H_{47}NO_8S$

1-Dodecyl 2-acetamido-2-deoxy-3-*O*-methanosulfonyl-4,6-*O*-[(*R*,*E*)-3-phenyl-2-propenylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



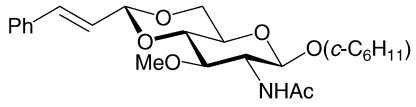
Ee = 100%
$[\alpha]_D^{25} = +64.4$ (*c* 0.8, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, α-D-*gluco*

$C_{19}H_{27}O_{10}S_2$

Methyl 2,3-di-*O*-methanosulfonyl-4,6-*O*-[(*R*,*E*)-2-methyl-3-phenyl-2-propenylidene]-α-D-glucopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



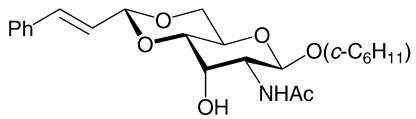
Ee = 100%
$[\alpha]_D^{25} = -10.3$ (*c* 0.7, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*gluco*

$C_{24}H_{33}NO_6$

c-Hexyl 2-acetamido-2-deoxy-3-*O*-methyl-4,6-*O*-[(*R*,*E*)-3-phenyl-2-propenylidene]-β-D-glucopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



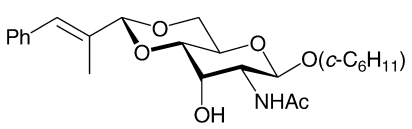
Ee = 100%
$[\alpha]_D^{25} = -86.9$ (*c* 0.7, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*allo*

$C_{23}H_{31}NO_6$

c-Hexyl 2-acetamido-2-deoxy-4,6-*O*-[(*R*,*E*)-3-phenyl-2-propenylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



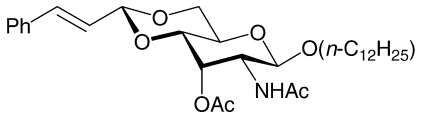
$C_{24}H_{33}NO_6$

Ee = 100%
$[\alpha]_D^{25} = -56.6$ (*c* 0.9, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*allo*

c-Hexyl 2-acetamido-2-deoxy-4,6-*O*-[(*R*,*E*)-2-methyl-3-phenyl-2-propenylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



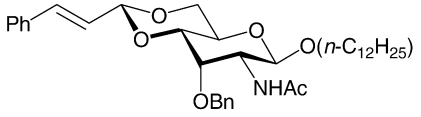
$C_{31}H_{47}NO_7$

Ee = 100%
$[\alpha]_D^{25} = -67.4$ (*c* 1.0, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*allo*

1-Dodecyl 2-acetamido-3-*O*-acetyl-2-deoxy-4,6-*O*-[(*R*,*E*)-3-phenyl-2-propenylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



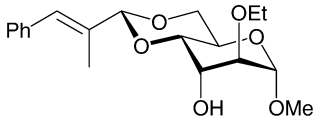
$C_{36}H_{51}NO_6$

Ee = 100%
$[\alpha]_D^{25} = -76.3$ (*c* 1.0, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, β-D-*allo*

1-Dodecyl 2-acetamido-3-*O*-benzyl-2-deoxy-4,6-*O*-[(*R*,*E*)-3-phenyl-2-propenylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



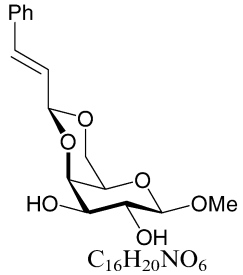
$C_{19}H_{26}O_6$

Ee = 100%
$[\alpha]_D^{25} = +79.5$ (*c* 0.9, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*R*,*E*)-, α-D-*altro*

Methyl 2-*O*-ethyl-4,6-*O*-[(*R*,*E*)-2-methyl-3-phenyl-2-propenylidene]-α-D-altropyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



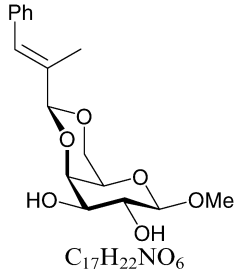
$C_{16}H_{20}NO_6$

Methyl 4,6-*O*-[(*S*,*E*)-3-phenyl-2-propenylidene]-β-D-galactopyranoside

Ee = 100%
$[\alpha]_D^{25} = -35.5$ (*c* 0.9, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*S*,*E*)-, β-D-*galacto*

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



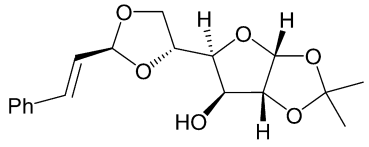
$C_{17}H_{22}NO_6$

Methyl 4,6-*O*-[(*S*,*E*)-2-methyl-3-phenyl-2-propenylidene]-β-D-galactopyranoside

Ee = 100%
$[\alpha]_D^{25} = -55.1$ (*c* 0.8, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(*S*,*E*)-, β-D-*galacto*

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



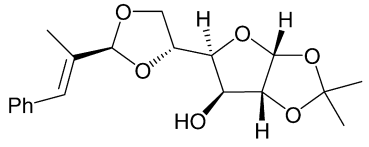
$C_{18}H_{22}O_6$

1,2-*O*-Isopropylidene-5,6-*O*-[(*S*,*E*)-3-phenyl-2-propenylidene]-α-D-glucofuranose

Ee = 100%
$[\alpha]_D^{25} = +26.4$ (*c* 1.0, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 5,6-*O*-(*S*,*E*)-, α-D-*glucofuranose*

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



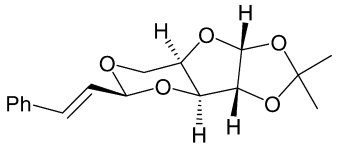
$C_{19}H_{24}O_6$

1,2-*O*-Isopropylidene-5,6-*O*-[(*S*,*E*)-2-methyl-3-phenyl-2-propenylidene]-α-D-glucofuranose

Ee = 100%
$[\alpha]_D^{25} = +12.7$ (*c* 0.9, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 5,6-*O*-(*S*,*E*)-, α-D-*glucofuranose*

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



$C_{17}H_{20}O_5$

Ee = 100%
$[\alpha]_D^{25} = +12.3$ (*c* 0.8, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 3,5-*O*-(*S*,*E*)-, α-D-*xylofuranose*

1,2-*O*-Isopropylidene-3,5-*O*-[(*S*,*E*)-3-phenyl-2-propenylidene]-α-D-xylofuranose

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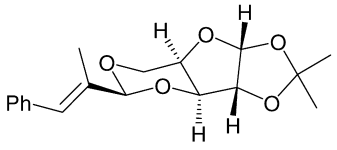
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



$C_{18}H_{22}O_5$

Ee = 100%
$[\alpha]_D^{25} = -3.9$ (*c* 0.7, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 3,5-*O*-(*S*,*E*)-, α-D-*xylofuranose*

1,2-*O*-Isopropylidene-3,5-*O*-[(*S*,*E*)-2-methyl-3-phenyl-2-propenylidene]-α-D-xylofuranose

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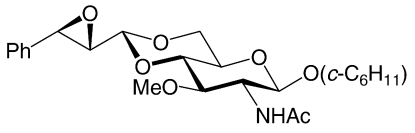
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



$C_{24}H_{33}NO_7$

De = 14%
$[\alpha]_D^{25} = -14.3$ (*c* 0.6, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*,3*R*)-, β-D-*gluco*

c-Hexyl 2-acetamido-2-deoxy-4,6-*O*-[(1*R*,2*S*,3*R*)-2,3-epoxy-3-phenylpropylidene]-3-*O*-methyl-β-D-glucopyranoside

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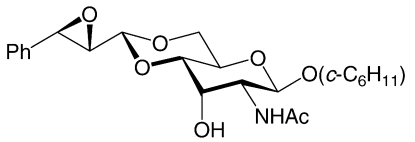
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



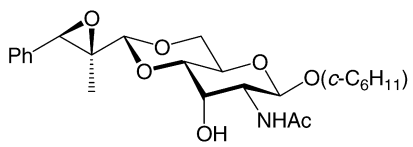
$C_{23}H_{31}NO_7$

De = 68%
$[\alpha]_D^{25} = -15.7$ (*c* 0.6, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*,3*R*)-, β-D-*allo*

c-Hexyl 2-acetamido-2-deoxy-4,6-*O*-[(1*R*,2*S*,3*R*)-2,3-epoxy-3-phenylpropylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 72%
$[\alpha]_D^{25} = -46.5$ (*c* 0.6, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*,3*R*)-, β-D-*allo*

$C_{24}H_{33}NO_7$

c-Hexyl 2-acetamido-2-deoxy-4,6-*O*-[(1*R*,2*S*,3*R*)-2,3-epoxy-2-methyl-3-phenylpropylidene]-β-D-allopyranoside

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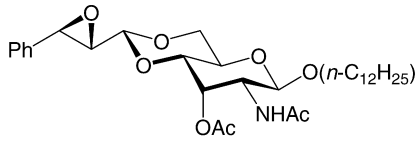
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 20%
$[\alpha]_D^{25} = -64.7$ (*c* 0.8, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*,3*R*)-, β-D-*allo*

$C_{31}H_{47}NO_8$

1-Dodecyl 2-acetamido-3-*O*-acetyl-2-deoxy-4,6-*O*-[(1*R*,2*S*,3*R*)-2,3-epoxy-3-phenylpropylidene]-β-D-allopyranoside

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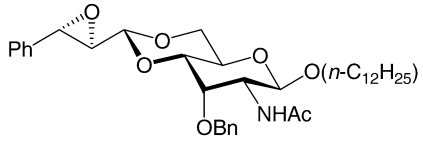
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 28%
$[\alpha]_D^{25} = -80.0$ (*c* 1.2, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*R*,3*S*)-, β-D-*allo*

$C_{36}H_{51}NO_7$

1-Dodecyl 2-acetamido-3-*O*-benzyl-2-deoxy-4,6-*O*-[(1*R*,2*R*,3*S*)-2,3-epoxy-3-phenylpropylidene]-β-D-allopyranoside

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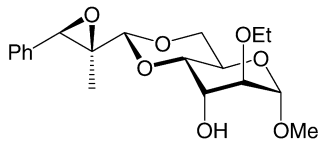
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



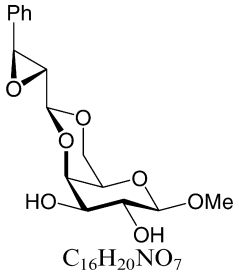
De = 34%
$[\alpha]_D^{25} = +72.8$ (*c* 0.8, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*,3*R*)-, α-D-*altro*

$C_{19}H_{26}O_7$

Methyl 4,6-*O*-[(1*R*,2*S*,3*R*)-2,3-epoxy-2-methyl-3-phenylpropylidene]-2-*O*-ethyl-α-D-altropyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



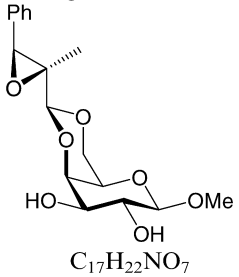
$C_{16}H_{20}NO_7$

De = 26%
$[\alpha]_D^{25} = -3.2$ (*c* 0.9, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*S*,2*R*,3*S*)-, β-D-*galacto*

Methyl 4,6-*O*-[(1*S*,2*R*,3*S*)-2,3-epoxy-3-phenylpropylidene]-β-D-galactopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



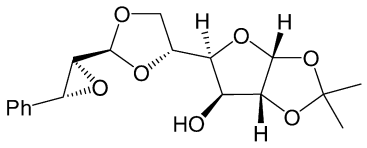
$C_{17}H_{22}NO_7$

De = 74%
$[\alpha]_D^{25} = -4.9$ (*c* 0.7, CH_2Cl_2)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*S*,2*R*,3*S*)-, β-D-*galacto*

Methyl 4,6-*O*-[(1*S*,2*R*,3*S*)-2,3-epoxy-2-methyl-3-phenylpropylidene]-β-D-galactopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



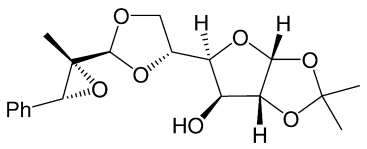
$C_{18}H_{22}O_7$

De = 56%
$[\alpha]_D^{25} = +2.6$ (*c* 0.7, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 5,6-*O*-(1*S*,2*S*,3*R*)-, α-D-*glucofuranose*

5,6-*O*-[(1*S*,2*S*,3*R*)-2,3-Epoxy-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-glucofuranose

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



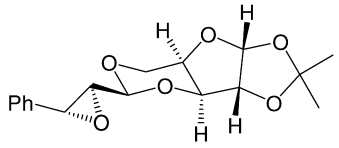
$C_{19}H_{24}O_7$

De = 60%
$[\alpha]_D^{25} = +1.4$ (*c* 0.7, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 5,6-*O*-(1*S*,2*S*,3*R*)-, α-D-*glucofuranose*

5,6-*O*-[(1*S*,2*S*,3*R*)-2,3-Epoxy-2-methyl-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-glucofuranose

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 22%
$[\alpha]_D^{25} = +6.5$ (*c* 0.8, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 3,5-*O*-(1*S*,2*S*,3*R*)-, α-D-*xylo-furanose*

$C_{17}H_{20}O_6$

3,5-*O*-[(1*S*,2*S*,3*R*)-2,3-Epoxy-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-xylofuranose

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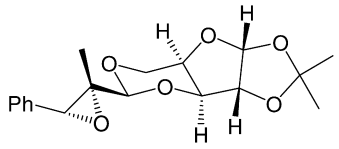
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 30%
$[\alpha]_D^{25} = +7.6$ (*c* 0.9, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 3,5-*O*-(1*S*,2*S*,3*R*)-, α-D-*xylo-furanose*

$C_{18}H_{22}O_6$

3,5-*O*-[(1*S*,2*S*,3*R*)-2,3-Epoxy-2-methyl-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-xylofuranose

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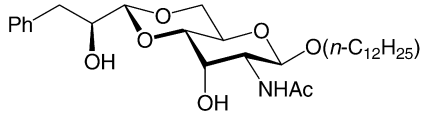
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 70%
$[\alpha]_D^{25} = -33.6$ (*c* 0.7, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*S*)-, β-D-*allo*

$C_{29}H_{47}NO_7$

1-Dodecyl 2-acetamido-2-deoxy-4,6-*O*-[(1*R*,2*S*)-2-hydroxy-3-phenylpropylidene]-β-D-allopyranoside

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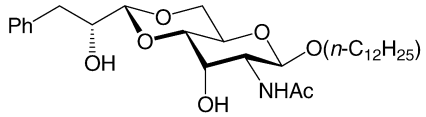
José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



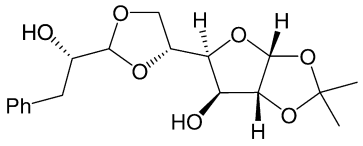
De = 36%
$[\alpha]_D^{25} = -35.8$ (*c* 0.9, $CHCl_3$)
Source of chirality: asymmetric synthesis
Absolute configuration: 4,6-*O*-(1*R*,2*R*)-, β-D-*allo*

$C_{29}H_{47}NO_7$

1-Dodecyl 2-acetamido-2-deoxy-4,6-*O*-[(1*R*,2*R*)-2-hydroxy-3-phenylpropylidene]-β-D-allopyranoside

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 60%

$[\alpha]_D^{25} = +12.6$ (*c* 0.7, CH_2Cl_2)

Source of chirality: asymmetric synthesis

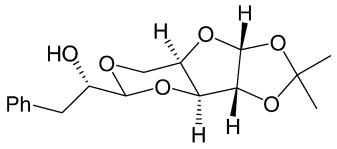
Absolute configuration: 5,6-*O*-(1*S*,2*S*)-, α-D-*gluco*-*furanose*

$C_{18}H_{24}O_7$

5,6-*O*-[(1*S*,2*S*)-2-Hydroxy-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-glucofuranose

José M. Vega-Pérez,* Margarita Vega, Eugenia Blanco and Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry *18 (2007) 1850*



De = 26%

$[\alpha]_D^{25} = +10.2$ (*c* 0.7, $CHCl_3$)

Source of chirality: asymmetric synthesis

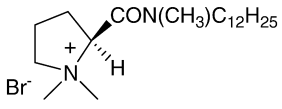
Absolute configuration: 3,5-*O*-(1*S*,2*S*)-, α-D-*xylo*-*furanose*

$C_{17}H_{22}O_6$

3,5-*O*-[(1*S*,2*S*)-2-Hydroxy-3-phenylpropylidene]-1,2-*O*-isopropylidene-α-D-xylofuranose

Alessandro Alzalamira, Francesca Ceccacci, Donato Monti, Stefano Levi Mortera, Giovanna Mancini,* Alessandro Sorrenti, Mariano Venanzi and Claudio Villani

Tetrahedron: Asymmetry *18 (2007) 1868*



$[\alpha]_D = -27.3$ (*c* 1.75, MeOH)

Absolute configuration: (*S*)

$C_{20}H_{41}BrN_2O$

(2*S*)-*N*-Dodecyl-*N*,1,1-trimethylpyrrolidinium-2-carboxamide bromide