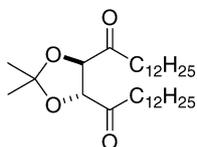


Stereochemistry abstracts

Kavirayani R. Prasad\* and Pazhamalai Anbarasan

*Tetrahedron: Asymmetry 17 (2006) 2465*



$C_{31}H_{58}O_4$

(4*R*,5*R*)-4,5-Bis(tridecanoyl)-2,2-dimethyl-1,3-dioxolane

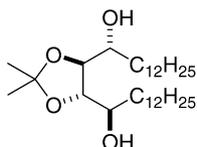
$[\alpha]_D = +2.4$  (*c* 3.4,  $CHCl_3$ )

Source of chirality: L-(+)-tartaric acid

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

Kavirayani R. Prasad\* and Pazhamalai Anbarasan

*Tetrahedron: Asymmetry 17 (2006) 2465*



$C_{31}H_{62}O_4$

(4*S*,5*S*)-4,5-Bis((*R*)-1-hydroxytridecyl)-2,2-dimethyl-1,3-dioxolane

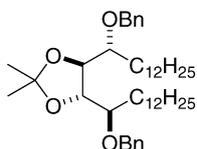
$[\alpha]_D = -2.7$  (*c* 3.6,  $CHCl_3$ )

Source of chirality: L-(+)-tartaric acid

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

Kavirayani R. Prasad\* and Pazhamalai Anbarasan

*Tetrahedron: Asymmetry 17 (2006) 2465*



$C_{45}H_{74}O_4$

(4*S*,5*S*)-4,5-Bis((*R*)-1-(benzyloxy)tridecyl)-2,2-dimethyl-1,3-dioxolane

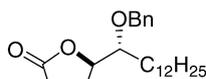
$[\alpha]_D = -7.9$  (*c* 2.1,  $CHCl_3$ )

Source of chirality: L-(+)-tartaric acid

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

Kavirayani R. Prasad\* and Pazhamalai Anbarasan

*Tetrahedron: Asymmetry 17 (2006) 2465*



$C_{24}H_{38}O_3$

(*R*)-5-((*R*)-1-(Benzyloxy)tridecyl)-dihydrofuran-2(3*H*)-one

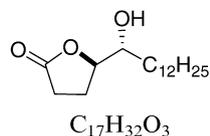
$[\alpha]_D = -9.6$  (*c* 3.0,  $CHCl_3$ )

Source of chirality: L-(+)-tartaric acid

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

Kavirayani R. Prasad\* and Pazhamalai Anbarasan

*Tetrahedron: Asymmetry 17 (2006) 2465*



(-)-Muricatacin

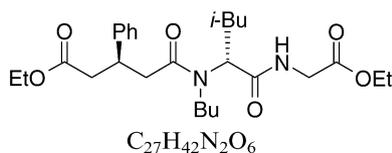
$[\alpha]_D = -23.6$  ( $c$  1.1,  $CHCl_3$ )

Source of chirality: L-(+)-tartaric acid

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

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(3*S*)-4-[(1*R*)-1-(ethoxycarbonylmethyl-carbamoyl)-3-methyl-butyl]-butyl-carbamoyl-3-phenyl-butyric acid ethyl ester

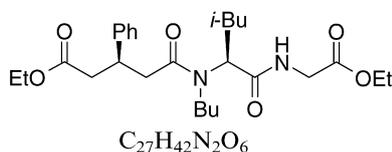
$\Delta\epsilon$  ( $\lambda$ , MeCN) = +2.79 (191.0); +1.29 (206.0); +7.71 (230.0); -0.03 (269.0)

Chirality source: stereocontrolled synthesis from amino acid

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

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(3*S*)-4-[(1*S*)-1-(ethoxycarbonylmethyl-carbamoyl)-3-methyl-butyl]-butyl-carbamoyl-3-phenyl-butyric acid ethyl ester

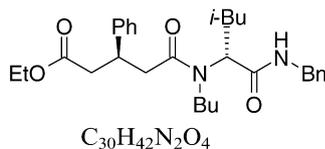
$\Delta\epsilon$  ( $\lambda$ , MeCN) = +7.83 (190.5); -1.28 (208.5<sup>sh</sup>); -9.13 (229.0); -0.09 (269.0)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (1*S*,3*S*)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(3*S*)-4-[(1*R*)-1-Benzylcarbamoyl-3-methyl-butyl]-butyl-carbamoyl-3-phenyl-butyric acid ethyl ester

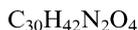
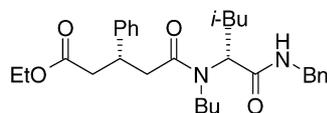
$\Delta\epsilon$  ( $\lambda$ , MeCN) = -3.16 (197.5); +2.18 (208.5); +10.83 (230.0); -0.03 (269.5)

Chirality source: stereocontrolled synthesis from amino acid

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

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(3S)-4-(((1S)-1-Benzylcarbamoyl-3-methyl-butyl)-butyl-carbamoyl]-3-phenyl-butyric acid ethyl ester

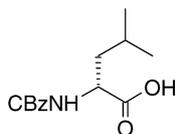
$\Delta\epsilon$  ( $\lambda$ , MeCN) = -13.21 (194.0); +2.55 (210.0); +12.73 (230.0); +0.08 (267.5)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (1S,3S)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(2R)-2-Benzoyloxycarbonylamino-4-methyl-pentanoic acid

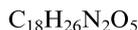
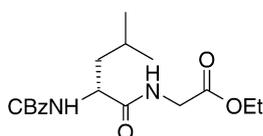
$[\alpha]_D^{22} = +16.9$  (*c* 2.00, EtOH)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (2S)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



((2R)-2-Benzoyloxycarbonylamino-4-methyl-pentanoylamino)-acetic acid ethyl ester

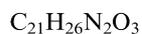
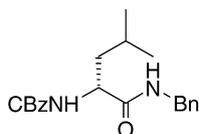
$[\alpha]_D^{25} = +27.6$  (*c* 1.00, MeOH)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (2R)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



(2R)-2-Benzoyloxycarbonylamino-4-methyl-pentanoic acid benzylamide

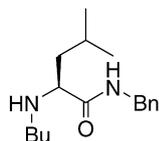
$[\alpha]_D^{26} = +18.5$  (*c* 1.26, EtOH)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (2R)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



$C_{17}H_{28}N_2O$

(2*S*)-2-(Butylamino)-4-methyl-pentanoic acid benzylamide

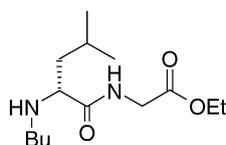
$[\alpha]_D^{23} = -7.3$  (*c* 1.01, MeOH)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (2*S*)

Jadwiga Frelek,\* Anna Fryszkowska, Marcin Kwit and Ryszard Ostaszewski\*

*Tetrahedron: Asymmetry 17 (2006) 2469*



$C_{14}H_{28}N_2O_3$

((2*R*)-2-Butylamino-4-methyl-pentanoylamino)-acetic acid ethyl ester

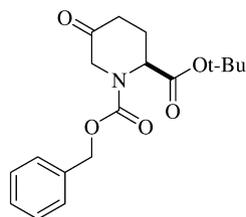
$[\alpha]_D^{23} = +16.8$  (*c* 0.72, MeOH)

Chirality source: stereocontrolled synthesis from amino acid

Absolute configuration: (2*R*)

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{18}H_{23}NO_5$

*N*-Benzyloxycarbonyl-5-oxo-*S*-pipecolic acid *tert*-butyl ester

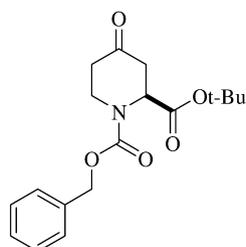
$[\alpha]_D^{25} = -4.8$  (*c* 1.0, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{18}H_{23}NO_5$

*N*-Benzyloxycarbonyl-4-oxo-*S*-pipecolic acid *tert*-butyl ester

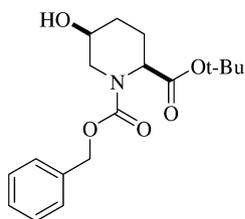
$[\alpha]_D^{25} = -15.4$  (*c* 1.0, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Absolute configuration: (2*S*)

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{18}H_{25}NO_5$

*N*-Benzyloxycarbonyl-(2*S*,5*S*)-5-hydroxypipercolic acid *tert*-butyl ester

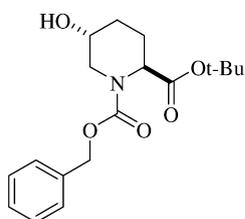
$[\alpha]_D^{26} = -27.9$  (*c* 2.0,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{18}H_{25}NO_5$

*N*-Benzyloxycarbonyl-(2*S*,5*R*)-5-hydroxypipercolic acid *tert*-butyl ester

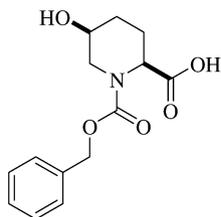
$[\alpha]_D^{26} = -19.6$  (*c* 2.0,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{14}H_{17}NO_5$

*N*-Benzyloxycarbonyl-(2*S*,5*S*)-5-hydroxypipercolic acid

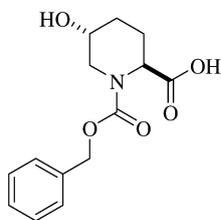
$[\alpha]_D^{26} = +76.5$  (*c* 0.17, MeOH)

Source of chirality: asymmetric synthesis

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

Jae-Chul Jung and Mitchell A. Avery\*

*Tetrahedron: Asymmetry 17 (2006) 2479*



$C_{14}H_{17}NO_5$

*N*-Benzyloxycarbonyl-(2*S*,5*R*)-5-hydroxypipercolic acid

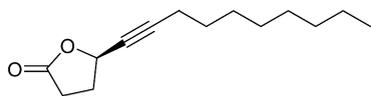
$[\alpha]_D^{28} = -7.2$  (*c* 1.0, MeOH)

Source of chirality: asymmetric synthesis

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

Alcindo A. Dos Santos\* and Wittko Francke

*Tetrahedron: Asymmetry* 17 (2006) 2487



$C_{14}H_{22}O_2$   
(*R*)-5-(Dec-1-ynyl)-dihydrofuran-2(3*H*)-one

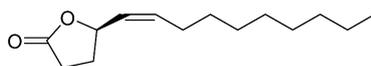
Ee = 90%

$[\alpha]_D^{28} = -6.0$  (*c* 2.6,  $CHCl_3$ )

Absolute configuration: *R*

Alcindo A. Dos Santos\* and Wittko Francke

*Tetrahedron: Asymmetry* 17 (2006) 2487



$C_{14}H_{24}O_2$   
(*R,Z*)-5-(Dec-1-enyl)-dihydrofuran-2(3*H*)-one

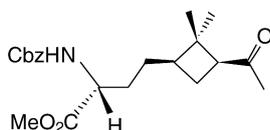
Ee = 87%

$[\alpha]_D^{23} = -61.1$  (*c* 1.5,  $CHCl_3$ )

Absolute configuration: *R*

Gemma P. Aguado, Federico Rúa, Vicenç Branchadell, Peter E. Nielsen  
and Rosa M. Ortuño\*

*Tetrahedron: Asymmetry* 17 (2006) 2499



$C_{21}H_{29}NO_5$   
Methyl (1'*R*,2*R*,3'*S*)-2-benzyloxycarbonylamino-4-(3'-acetyl-2',2'-dimethylcyclobutyl)butanoate

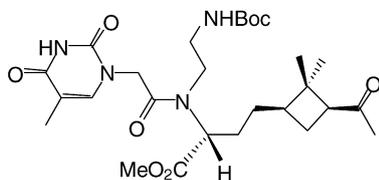
$[\alpha]_D = +20.2$  (*c* 1.4, MeOH)

Source of chirality: (+)- $\alpha$ -pinene and asymmetric hydrogenation

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

Gemma P. Aguado, Federico Rúa, Vicenç Branchadell, Peter E. Nielsen  
and Rosa M. Ortuño\*

*Tetrahedron: Asymmetry* 17 (2006) 2499



$C_{27}H_{42}N_4O_8$   
Methyl (1'*R*,2*R*,3'*S*)-2-[2''-tert-butoxycarbonylamino-1''-[(thymin-1-yl)acetyl]aminoethyl]-4-(3'-acetyl-2',2'-dimethylcyclobutyl)butanoate

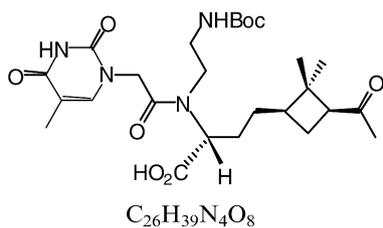
$[\alpha]_D = +33.0$  (*c* 1.0, MeOH)

Source of chirality: (+)- $\alpha$ -pinene and asymmetric hydrogenation

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

Gemma P. Aguado, Federico Rúa, Vicenç Branchadell, Peter E. Nielsen and Rosa M. Ortuno\*

*Tetrahedron: Asymmetry 17 (2006) 2499*



(1'*R*,2*R*,3'*S*)-2-[2''-*tert*-Butoxycarbonylamino-1''-[(thymine-1-yl)acetyl]aminoethyl]-4-(3'-acetyl-2',2'-dimethylcyclobutyl)butanoic acid

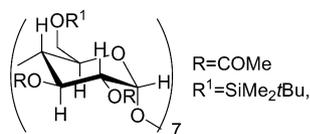
$[\alpha]_D = +14.5$  (*c* 1.1, MeOH)

Source of chirality: (+)- $\alpha$ -pinene and asymmetric hydrogenation

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

Gloria Uccello-Barretta, Giuseppe Sicoli, Federica Balzano, Volker Schurig and Piero Salvadori\*

*Tetrahedron: Asymmetry 17 (2006) 2504*



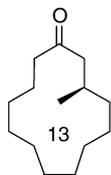
Heptakis(2,3-di-*O*-acetyl-6-*O*-*tert*-butyldimethylsilyl)- $\beta$ -cyclodextrin

$[\alpha]_D^{33} = +86.9$  (*c* 1.0,  $CHCl_3$ )

Source of chirality:  $\beta$ -cyclodextrin

Patrizia Scafato, Augusto Larocca and Carlo Rosini\*

*Tetrahedron: Asymmetry 17 (2006) 2511*



(*R*)-3

$C_{14}H_{26}O$

(*R*)-(-)-3-Methylcyclotridecan-1-one

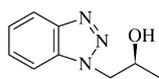
$[\alpha]_D = -12.9$  (*c* 0.7,  $CH_3OH$ )

Source of chirality: asymmetric conjugate addition

Absolute configuration: (*R*)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



(*S*)-(-)-(Benzotriazol-1-yl)-propan-2-ol

Ee = 98%

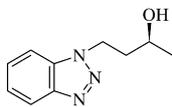
$[\alpha]_D^{24} = -28.6$  (*c* 1.46, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (*S*)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O

(S)-(-)-(Benzotriazol-1-yl)-butan-2-ol

Ee = 95%

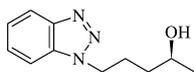
$[\alpha]_D^{24} = -32.1$  (c 1.33, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



C<sub>11</sub>H<sub>15</sub>N<sub>3</sub>O

(S)-(-)-(Benzotriazol-1-yl)-pentan-2-ol

Ee = 96%

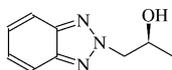
$[\alpha]_D^{24} = -24.6$  (c 1.51, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



C<sub>9</sub>H<sub>11</sub>N<sub>3</sub>O

(S)-(-)-(Benzotriazol-2-yl)-propan-2-ol

Ee = 95%

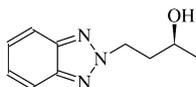
$[\alpha]_D^{24} = -19.4$  (c 1.33, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



C<sub>10</sub>H<sub>13</sub>N<sub>3</sub>O

(S)-(-)-(Benzotriazol-2-yl)-butan-2-ol

Ee = 97%

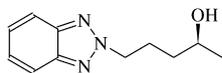
$[\alpha]_D^{24} = -25.1$  (c 1.28, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{11}H_{15}N_3O$

(S)-(-)-(Benzotriazol-2-yl)-pentan-2-ol

Ee = 96%

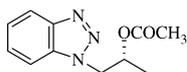
$[\alpha]_D^{24} = -33.3$  (c 1.49, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (S)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{11}H_{13}N_3O_2$

(R)-(+)-2-Acetoxy-1-(benzotriazol-1-yl)-pentan-2-ol

Ee = 94%

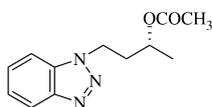
$[\alpha]_D^{24} = +29.3$  (c 1.55, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (R)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{12}H_{15}N_3O_2$

(R)-(+)-2-Acetoxy-1-(benzotriazol-1-yl)-pentan-2-ol

Ee = 98%

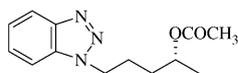
$[\alpha]_D^{24} = +39.2$  (c 1.49, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (R)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{13}H_{17}N_3O_2$

(R)-(+)-2-Acetoxy-1-(benzotriazol-1-yl)-pentan-2-ol

Ee = 96%

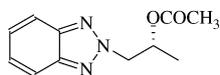
$[\alpha]_D^{24} = +21.9$  (c 1.39, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (R)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{11}H_{13}N_3O_2$

(*R*)-(+)-2-Acetoxy-1-(benzotriazol-2-yl)-propan-2-ol

Ee = 97%

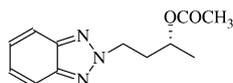
$[\alpha]_D^{24} = +18.9$  (*c* 1.49, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (*R*)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{12}H_{15}N_3O_2$

(*R*)-(+)-2-Acetoxy-1-(benzotriazol-2-yl)-butan-2-ol

Ee = 93%

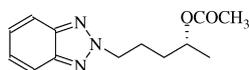
$[\alpha]_D^{24} = +27.1$  (*c* 1.22, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (*R*)

Beata K. Pchelka,\* André Loupy and Alain Petit

*Tetrahedron: Asymmetry 17 (2006) 2516*



$C_{13}H_{17}N_3O_2$

(*R*)-(+)-2-Acetoxy-1-(benzotriazol-2-yl)-pentan-2-ol

Ee = 98%

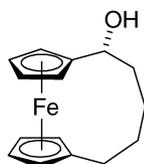
$[\alpha]_D^{24} = +19.9$  (*c* 1.35, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (*R*)

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{15}H_{18}FeO$

(*R*)-1,1'-(1-Hydroxypentan-1,5-diyl)ferrocene

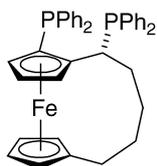
$[\alpha]_D = -27$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enantioselective CBS-reduction

Absolute configuration: *R*

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{39}H_{36}FeP_2$

(*R,pR*)-1-(Diphenylphosphanyl)-2,1'-[1-(diphenylphosphanyl)pentan-1,5-diyl]ferrocene

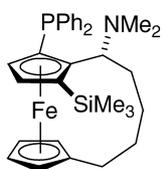
$[\alpha]_D = +482.9$  (*c* 0.31,  $CHCl_3$ )

Source of chirality: stereoselective synthesis

Absolute configuration: *RpR*

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{32}H_{40}FeNPSi$

(*R,pR*)-1-(Diphenylphosphanyl)-2,1'-[1-(dimethylamino)pentan-1,5-diyl]-3-trimethylsilylferrocene

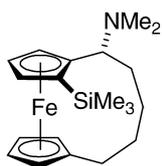
$[\alpha]_D = +319.8$  (*c* 0.54, MeOH)

Source of chirality: stereoselective synthesis

Absolute configuration: *RpR*

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{20}H_{31}FeNSi$

(*R,pS*)-1-(Trimethylsilyl)-2,1'-[1-(dimethylamino)pentan-1,5-diyl]ferrocene

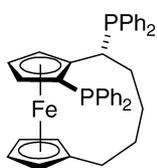
$[\alpha]_D = -113.3$  (*c* 0.92, MeOH)

Source of chirality: stereoselective synthesis

Absolute configuration: *RpS*

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{39}H_{36}FeP_2$

(*R,pS*)-1-(Diphenylphosphanyl)-2,1'-[1-(diphenylphosphanyl)pentan-1,5-diyl]ferrocene

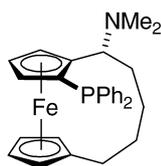
$[\alpha]_D = -839$  (*c* 0.22, acetone)

Source of chirality: stereoselective synthesis

Absolute configuration: (*RpS*)

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{29}H_{32}FeNP$

(*R,pS*)-1-(Diphenylphosphanyl)-2,1'-[1-(dimethylamino)pentan-1,5-diyl]ferrocene

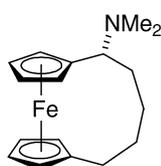
$[\alpha]_D = -404$  (*c* 1.7,  $CHCl_3$ )

Source of chirality: stereoselective synthesis

Absolute configuration: *RpS*

Radovan Šebesta,\* Ambróz Almassy, Ivana Císařová and Štefan Toma

*Tetrahedron: Asymmetry 17 (2006) 2531*



$C_{17}H_{23}FeN$

(*R*)-1,1'-[1-(Dimethylamino)pentan-1,5-diyl]ferrocene

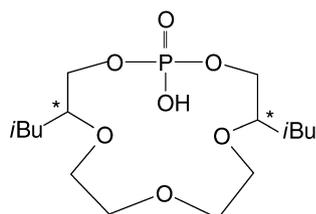
$[\alpha]_D = +9.5$  (*c* 1.06,  $CHCl_3$ )

Source of chirality: stereoselective synthesis

Absolute configuration: *R*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{16}H_{33}O_7P$

(*4S,12S*)-1-Hydroxy-4,12-diisobutyl-2,5,8,11,14-pentaoxa-1-phosphacyclotetradecane 1-oxide

Ee >97%

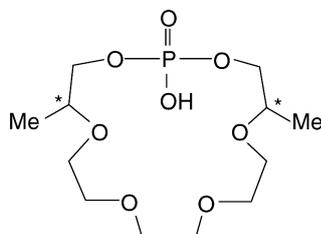
$[\alpha]_D^{23} = -8.5$  (*c* 1.52,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: *4S,12S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{12}H_{25}O_8P$

(*4S,15S*)-1-Hydroxy-4,15-dimethyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

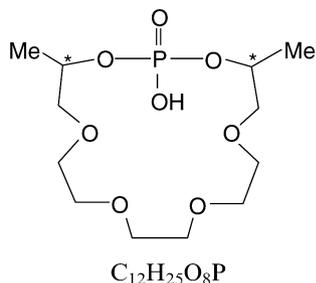
$[\alpha]_D^{24} = +26.8$  (*c* 1.77,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(-)-ethyl lactate

Absolute configuration: *4S,15S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{12}H_{25}O_8P$   
(3*S*,16*S*)-1-Hydroxy-3,16-dimethyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

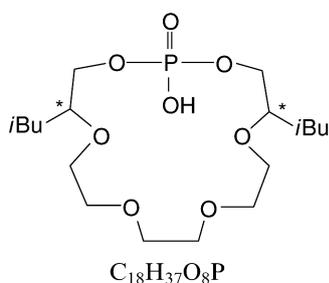
$[\alpha]_D^{23} = +20.1$  (c 2.85,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(-)-ethyl lactate

Absolute configuration: 3*S*,16*S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{18}H_{37}O_8P$   
(4*S*,15*S*)-1-Hydroxy-4,15-diisobutyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

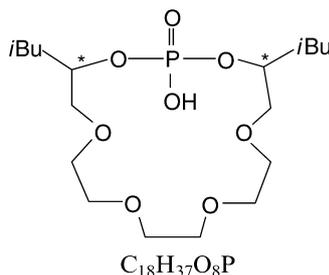
$[\alpha]_D^{26} = +10.2$  (c 1.49,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: 4*S*,15*S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{18}H_{37}O_8P$   
(3*S*,16*S*)-1-Hydroxy-3,16-diisobutyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

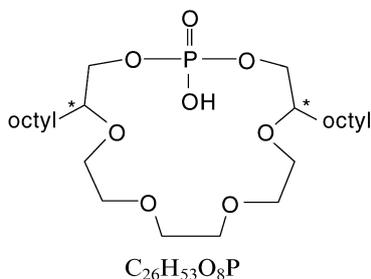
$[\alpha]_D^{26} = +7.95$  (c 1.59,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: 3*S*,16*S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{26}H_{53}O_8P$   
(4*S*,15*S*)-1-Hydroxy-4,15-dioctyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

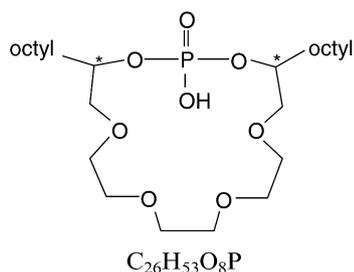
$[\alpha]_D^{26} = +7.0$  (c 2.50,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-2-hydroxydecanoic acid

Absolute configuration: 4*S*,15*S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{26}H_{53}O_8P$   
(3*S*,16*S*)-1-Hydroxy-3,16-dioctyl-2,5,8,11,14,17-hexaoxa-1-phosphacycloheptadecane 1-oxide

Ee >97%

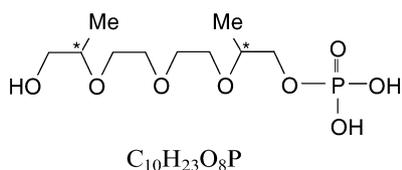
$[\alpha]_D^{24} = +12.1$  (*c* 1.93,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-2-hydroxydecanoic acid

Absolute configuration: 3*S*,16*S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{10}H_{23}O_8P$   
(2*S*)-2-(2-{2-[(2*S*)-1-Hydroxypropan-2-yloxy]ethoxy}ethoxy)propyl dihydrogenphosphate

Ee >97%

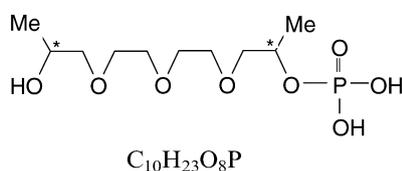
$[\alpha]_D^{28} = +24.2$  (*c* 2.91,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(-)-ethyl lactate

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{10}H_{23}O_8P$   
(2*S*)-3-(2-{2-[(2*S*)-2-Hydroxypropoxy]ethoxy}ethoxy)propan-2-yl dihydrogenphosphate

Ee >97%

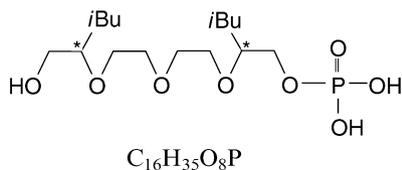
$[\alpha]_D^{27} = +11.1$  (*c* 1.41,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(-)-ethyl lactate

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{16}H_{35}O_8P$   
(2*S*)-2-(2-{2-[(2*S*)-1-Hydroxy-4-methylpentan-2-yloxy]ethoxy}ethoxy)-4-methylpentyl dihydrogenphosphate

Ee >97%

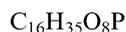
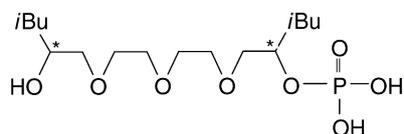
$[\alpha]_D^{23} = -7.3$  (*c* 2.05,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



(2*S*)-1-(2-{2-[(2*S*)-2-Hydroxy-4-methylpentyl]oxy}ethoxy)ethoxy-4-methylpentan-2-yl dihydrogenphosphate

$E_e > 97\%$

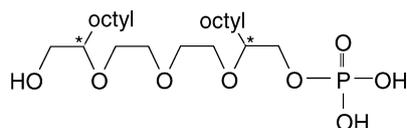
$[\alpha]_D^{20} = -9.8$  ( $c$  1.85,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



(2*R*)-2-(2-{2-[(2*R*)-1-Hydroxydecan-2-yloxy]ethoxy}ethoxy)decyl dihydrogenphosphate

$E_e > 97\%$

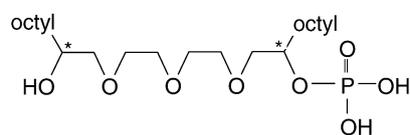
$[\alpha]_D^{27} = -5.2$  ( $c$  1.74,  $CH_2Cl_2$ )

Source of chirality: (*R*)-(+)-2-hydroxydecanoic acid

Absolute configuration: *R,R*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



(2*S*)-1-(2-{2-[(2*S*)-2-Hydroxydecyl]oxy}ethoxy)ethoxy)decan-2-yl dihydrogenphosphate

$E_e > 97\%$

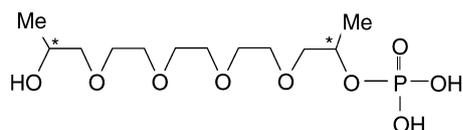
$[\alpha]_D^{27} = +9.8$  ( $c$  2.29,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-2-hydroxydecanoic acid

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



(2*S*,15*S*)-15-Hydroxy-4,7,10,13-tetraoxahexadecan-2-yl dihydrogenphosphate

$E_e > 97\%$

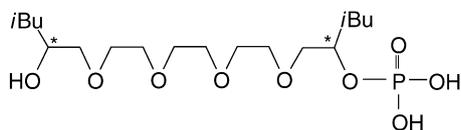
$[\alpha]_D^{23} = +8.75$  ( $c$  4.16,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(-)-ethyl lactate

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{18}H_{39}O_9P$

(4*S*,17*S*)-17-Hydroxy-2,19-dimethyl-6,9,12,15-tetraoxaeicosan-4-yl dihydrogenphosphate

Ee >97%

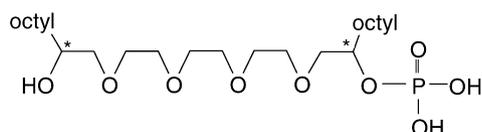
$[\alpha]_D^{23} = -11.4$  (*c* 2.47,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-leucine

Absolute configuration: *S,S*

Ilona Kovács, Péter Huszthy,\* Ferenc Bertha and Dénes Sziebert

*Tetrahedron: Asymmetry 17 (2006) 2538*



$C_{26}H_{55}O_9P$

(9*S*,22*S*)-22-Hydroxy-11,14,17,20-tetraoxatriacontan-9-yl dihydrogenphosphate

Ee >97%

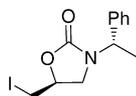
$[\alpha]_D^{24} = +8.1$  (1.46,  $CH_2Cl_2$ )

Source of chirality: (*S*)-(+)-2-hydroxydecanoic acid

Absolute configuration: *S,S*

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_{12}H_{14}INO_2$

(1'*S*,5*S*)-5-Yodomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

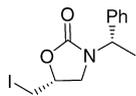
$[\alpha]_D^{24} = -15.7$  (*c* 0.45,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_{12}H_{14}INO_2$

(1'*S*,5*R*)-5-Yodomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

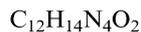
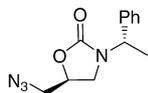
$[\alpha]_D^{24} = -3.3$  (*c* 0.12,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



(1'S,5S)-5-Azidomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

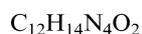
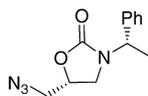
$[\alpha]_D^{24} = 22.6$  (c 0.19,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5S)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



(1'S,5R)-5-Azidomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

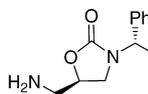
$[\alpha]_D^{24} = -220.65$  (c 0.10,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5R)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



(1'S,5R)-5-Aminomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

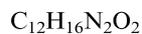
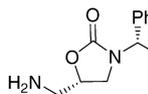
$[\alpha]_D^{23} = -39.6$  (c 0.12,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5R)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



(1'S,5S)-5-Aminomethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

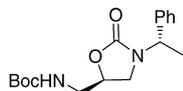
$[\alpha]_D^{24} = -139.2$  (c 0.10,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5S)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_{17}H_{24}N_2O_4$

(1'S,5R)-5-tert-Butoxycarbonylaminoethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

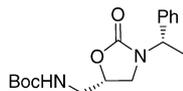
$[\alpha]_D^{26} = -32.7$  (c 0.06,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5R)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_{17}H_{24}N_2O_4$

(1'S,5S)-5-tert-Butoxycarbonylaminoethyl-3-(1'-phenylethyl)-1,3-oxazolidin-2-one

Ee = 100%

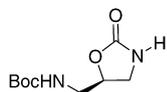
$[\alpha]_D^{26} = -95.85$  (c 0.05,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (1'S,5S)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_9H_{16}N_2O_4$

(5S)-5-tert-Butoxycarbonylaminoethyl-1,3-oxazolidin-2-one

Ee = 100%

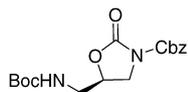
$[\alpha]_D^{26} = +1.4$  (c 2.02,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (5S)

Isabelle Fernández and Luis Muñoz\*

*Tetrahedron: Asymmetry 17 (2006) 2548*



$C_{17}H_{22}N_2O_6$

(5R)-5-tert-Butoxycarbonylaminoethyl-3-benzyloxycarbonyl-1,3-oxazolidin-2-one

Ee = 100%

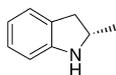
$[\alpha]_D^{26} = +11.9$  (c 0.05,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

Absolute configuration: (5R)

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>9</sub>H<sub>11</sub>N

(S)-(-)-2-Methylindoline

Ee = 99% (HPLC, Chiralcel OD)

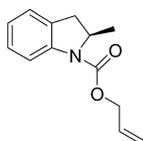
$[\alpha]_D^{20} = -16.3$  (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: S

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>13</sub>H<sub>15</sub>NO<sub>2</sub>

(R)-(-)-2-Methylindoline allyl carbamate

Ee = 99% (HPLC, Chiralcel OD)

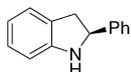
$[\alpha]_D^{20} = -47.4$  (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: R

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>14</sub>H<sub>13</sub>N

(S)-(+)-2-Phenylindoline

Ee = 97% (HPLC, Chiralcel OD)

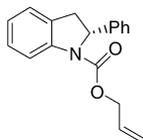
$[\alpha]_D^{20} = +65.4$  (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: S

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>18</sub>H<sub>17</sub>NO<sub>2</sub>

(R)-(-)-2-Phenylindoline allyl carbamate

Ee = 99% (HPLC, Chiralcel OB-H)

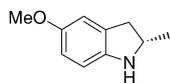
$[\alpha]_D^{20} = -93.0$  (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: R

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



$C_{10}H_{13}NO$

(*S*)-(-)-2-Methyl-5-methoxyindoline

Ee = 99% (HPLC, Chiralcel OD)

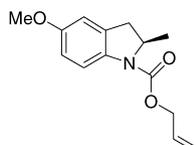
$[\alpha]_D^{20} = -14.2$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic kinetic resolution

Absolute configuration: *S*

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



$C_{14}H_{17}NO_2$

(*R*)-(-)-2-Methyl-5-methoxyindoline allyl carbamate

Ee = 95%

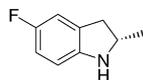
$[\alpha]_D^{20} = -54.6$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic kinetic resolution

Absolute configuration: *R*

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



$C_{19}H_{10}FN$

(*S*)-(-)-5-Fluoro-2-methylindoline

Ee = 99% (HPLC, Chiralcel OD)

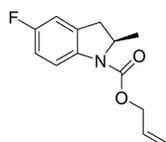
$[\alpha]_D^{20} = -10.1$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic kinetic resolution

Absolute configuration: *S*

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



$C_{13}H_{14}FNO_2$

(*R*)-(-)-5-Fluoro-2-methylindoline allyl carbamate

Ee = 99% (HPLC, Chiralcel OB-H)

$[\alpha]_D^{20} = -37.3$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic kinetic resolution

Absolute configuration: *R*

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>9</sub>H<sub>11</sub>N

(R)-(-)-3-Methylindoline

Ee = 99% (HPLC, Chiralcel OB-H)

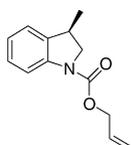
[ $\alpha$ ]<sub>D</sub><sup>20</sup> = -30.2 (c 0.25, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: R

Vicente Gotor-Fernández, Pedro Fernández-Torres and Vicente Gotor\*

*Tetrahedron: Asymmetry 17 (2006) 2558*



C<sub>13</sub>H<sub>15</sub>NO<sub>2</sub>

(S)-(-)-3-Methylindoline allyl carbamate

Ee = 97% (HPLC, Chiralcel OB-H)

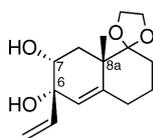
[ $\alpha$ ]<sub>D</sub><sup>20</sup> = +21.2 (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic kinetic resolution

Absolute configuration: S

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



C<sub>15</sub>H<sub>22</sub>O<sub>4</sub>

8a'-Methyl-6'-vinyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

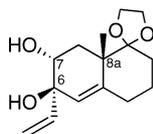
[ $\alpha$ ]<sub>D</sub><sup>20</sup> = -22 (c 0.56, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



C<sub>15</sub>H<sub>22</sub>O<sub>4</sub>

8a'-Methyl-6'-vinyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

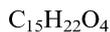
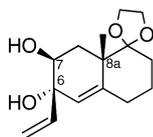
[ $\alpha$ ]<sub>D</sub><sup>20</sup> = +108 (c 1.0, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



8a'-Methyl-6'-vinyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

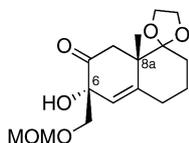
$[\alpha]_D^{20} = -68$  (c 1.1,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



6'-Hydroxy-6'-((methoxymethoxy)methyl)-8a'-methyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

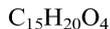
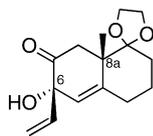
$[\alpha]_D^{20} = -37$  (c 1.37,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



6'-Hydroxy-8a'-methyl-6'-vinyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

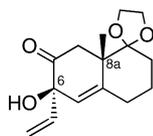
$[\alpha]_D^{20} = -164$  (c 1.07,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (6*S*,8a*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



6'-Hydroxy-8a'-methyl-6'-vinyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

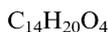
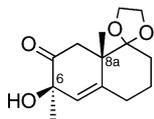
$[\alpha]_D^{20} = +167$  (c 0.92,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (6*R*,10*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



6'-Hydroxy-6',8a'-dimethyl-3',4',8',8a'-tetrahydro-2'H-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'H)-one

Ee = 71%

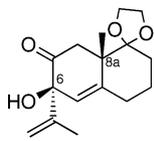
$[\alpha]_D^{20} = -11$  (c 0.74,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (6R,8aS)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



6'-Hydroxy-8a'-methyl-6'-(prop-1-en-2-yl)-3',4',8',8a'-tetrahydro-2'H-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'H)-one

Ee = 71%

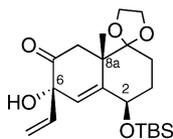
$[\alpha]_D^{20} = +265$  (c 0.93,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (6S,8aS)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-8a'-methyl-6'-vinyl-3',4',8',8a'-tetrahydro-2'H-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'H)-one

Ee = 71%

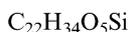
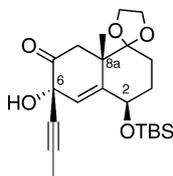
$[\alpha]_D^{20} = -124$  (c 1.42,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (4R,6S,8aS)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-8a'-methyl-6'-(prop-1-ynyl)-3',4',8',8a'-tetrahydro-2'H-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'H)-one

Ee = 71%

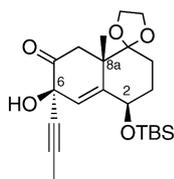
$[\alpha]_D^{20} = -114$  (c 1.19,  $CHCl_3$ )

Source of chirality: (S)-(-)-proline

Absolute configuration: (4R,6R,8aS)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{34}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-8a'-methyl-6'-(prop-1-ynyl)-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

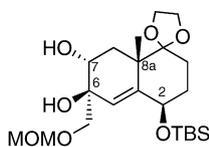
$[\alpha]_D^{20} = +129$  (*c* 1.11,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (4*R*,6*S*,8a*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{40}O_7Si$

4'-(*tert*-Butyldimethylsilyloxy)-6'-((methoxymethoxy)methyl)-8a'-methyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

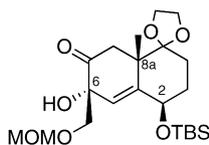
$[\alpha]_D^{20} = -10$  (*c* 1.59,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{38}O_7Si$

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-6'-((methoxymethoxy)methyl)-8a'-methyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

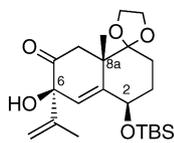
$[\alpha]_D^{20} = -31$  (*c* 0.65,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (4*R*,6*S*,8a*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{36}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-8a'-methyl-6'-(prop-1-en-2-yl)-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'-(6'*H*)-one

Ee = 71%

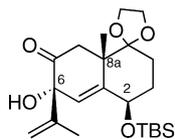
$[\alpha]_D^{20} = -131$  (*c* 1.05,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (4*R*,6*S*,8a*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{36}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-8a'-methyl-6'-(prop-1-en-2-yl)-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'*H*)-one

Ee = 71%

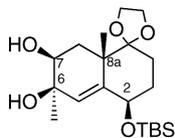
$[\alpha]_D^{20} = -117$  (*c* 0.67,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (4*R*,6*R*,8a*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{20}H_{36}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6',8a'-dimethyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

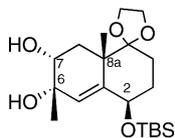
$[\alpha]_D^{20} = -34$  (*c* 1.05,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

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

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{20}H_{36}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6',8a'-dimethyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

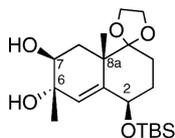
$[\alpha]_D^{20} = -5$  (*c* 1.02,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

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

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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{20}H_{36}O_5Si$

4'-(*tert*-Butyldimethylsilyloxy)-6',8a'-dimethyl-3',4',6',7',8',8a'-hexahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalene]-6',7'-diol

Ee = 71%

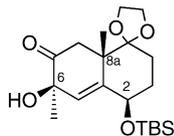
$[\alpha]_D^{20} = -38$  (*c* 1.05,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

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

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Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



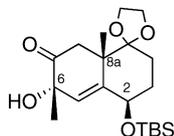
Ee = 71%  
 $[\alpha]_D^{20} = +43$  (c 1.03, CHCl<sub>3</sub>)  
Source of chirality: (S)-(-)-proline  
Absolute configuration: (4*R*,6*R*,8a*S*)

C<sub>20</sub>H<sub>34</sub>O<sub>5</sub>Si

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-6',8a'-dimethyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'*H*)-one

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



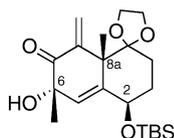
Ee = 71%  
 $[\alpha]_D^{20} = -14$  (c 1.16, CHCl<sub>3</sub>)  
Source of chirality: (S)-(-)-proline  
Absolute configuration: (4*R*,6*S*,8a*S*)

C<sub>20</sub>H<sub>34</sub>O<sub>5</sub>Si

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-6',8a'-dimethyl-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'*H*)-one

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



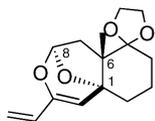
Ee = 71%  
 $[\alpha]_D^{20} = -80$  (c 1.02, CHCl<sub>3</sub>)  
Source of chirality: (S)-(-)-proline  
Absolute configuration: (4*R*,6*S*,8a*R*)

C<sub>21</sub>H<sub>34</sub>O<sub>5</sub>Si

4'-(*tert*-Butyldimethylsilyloxy)-6'-hydroxy-6',8a'-dimethyl-8'-methylene-3',4',8',8a'-tetrahydro-2'*H*-spiro[[1,3]dioxolane-2,1'-naphthalen]-7'(6'*H*)-one

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*Tetrahedron: Asymmetry 17 (2006) 2565*



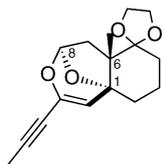
Ee = 71%  
 $[\alpha]_D^{20} = -15$  (c 1.01, CHCl<sub>3</sub>)  
Source of chirality: (S)-(-)-proline  
Absolute configuration: (1*R*,6*S*,8*R*)

C<sub>15</sub>H<sub>20</sub>O<sub>4</sub>

6-Methyl-10-vinyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

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*Tetrahedron: Asymmetry 17 (2006) 2565*



6-Methyl-10-prop-1-ynyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

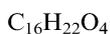
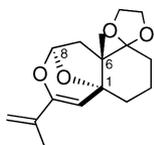
$[\alpha]_D^{20} = -44$  (c 0.94, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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10-Isopropenyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

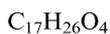
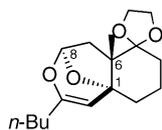
$[\alpha]_D^{20} = -16$  (c 0.50, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



10-Butyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

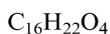
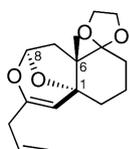
$[\alpha]_D^{20} = -29$  (c 1.20, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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10-Allyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

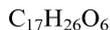
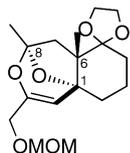
$[\alpha]_D^{20} = +37$  (c 0.20, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



10-Methoxymethoxymethyl-6,8-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

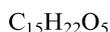
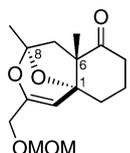
$[\alpha]_D^{20} = -20$  (c 0.45, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*S*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



10-Methoxymethoxymethyl-6,8-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

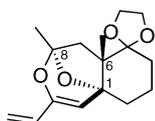
$[\alpha]_D^{20} = -7$  (c 0.35, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*S*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



6,8-Dimethyl-10-vinyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

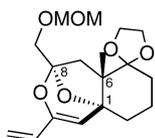
$[\alpha]_D^{20} = +2$  (c 0.54, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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8-Methoxymethoxymethyl-6-methyl-10-vinyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

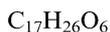
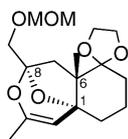
$[\alpha]_D^{20} = -10$  (c 1.24, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*S*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



8-Methoxymethoxymethyl-6,10-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

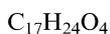
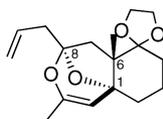
$[\alpha]_D^{20} = -24$  (c 0.45, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*S*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



8-Allyl-6,10-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

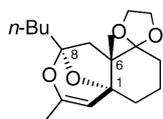
$[\alpha]_D^{20} = +56$  (c 0.40, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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8-Butyl-6,10-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

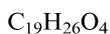
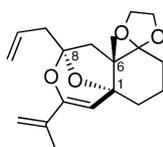
$[\alpha]_D^{20} = -7$  (c 0.51, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



8-Allyl-10-isopropenyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

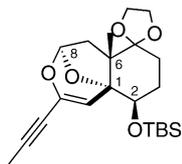
$[\alpha]_D^{20} = +1$  (c 0.44, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{22}H_{34}O_5Si$

2-(*tert*-Butyl-dimethyl-silyloxy)-6-methyl-10-prop-1-ynyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

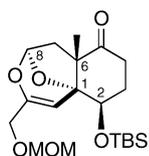
$[\alpha]_D^{20} = -38$  (c 1.23,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{20}H_{34}O_6Si$

2-(*tert*-Butyl-dimethyl-silyloxy)-10-methoxymethoxymethyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

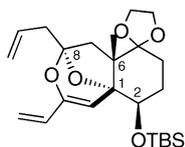
$[\alpha]_D^{20} = -39$  (c 1.50,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{24}H_{38}O_5Si$

8-Allyl-2-(*tert*-butyl-dimethyl-silyloxy)-6-methyl-10-vinyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

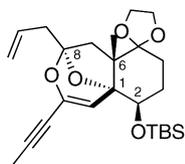
$[\alpha]_D^{20} = -4$  (c 1.23,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{25}H_{38}O_5Si$

8-Allyl-2-(*tert*-butyl-dimethyl-silyloxy)-6-methyl-10-prop-1-ynyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

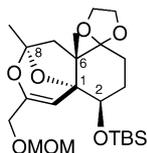
$[\alpha]_D^{20} = -17$  (c 1.29,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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2-(*tert*-Butyl-dimethyl-silyloxy)-10-methoxymethoxymethyl-6,8-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

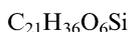
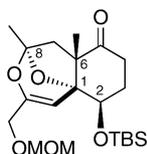
$[\alpha]_D^{20} = -10$  (c 0.36, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



2-(*tert*-Butyl-dimethyl-silyloxy)-10-methoxymethoxymethyl-6,8-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

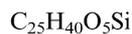
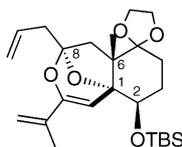
$[\alpha]_D^{20} = -12$  (c 1.55, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



8-Allyl-2-(*tert*-butyl-dimethyl-silyloxy)-10-isopropenyl-6-methyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

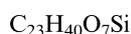
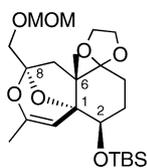
$[\alpha]_D^{20} = -6$  (c 1.59, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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Imad Safir and Siméon Arseniyadis\*

*Tetrahedron: Asymmetry 17 (2006) 2565*



2-(*tert*-Butyl-dimethyl-silyloxy)-8-methoxymethoxymethyl-6,10-dimethyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

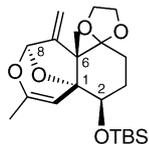
$[\alpha]_D^{20} = -3$  (c 0.73, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*S*)

Angeline Chanu, Isabel Castellote, Aurelien Commeureuc,  
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*Tetrahedron: Asymmetry 17 (2006) 2565*



$C_{21}H_{34}O_5Si$

2-(*tert*-Butyl-dimethyl-silyloxy)-6,10-dimethyl-7-methylene-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

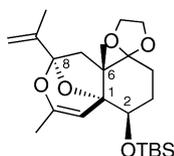
$[\alpha]_D^{20} = -40$  (*c* 1.08, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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$C_{23}H_{38}O_5Si$

2-(*tert*-Butyl-dimethyl-silyloxy)-6,10-dimethyl-8-isopropenyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

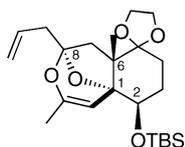
$[\alpha]_D^{20} = +1$  (*c* 0.98, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*S*)

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$C_{23}H_{38}O_5Si$

2-(*tert*-Butyl-dimethyl-silyloxy)-6,10-dimethyl-8-propyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

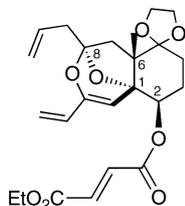
$[\alpha]_D^{20} = -6$  (*c* 0.80, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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$C_{24}H_{30}O_8$

But-2-enedioic acid 8-allyl-6-methyl-5-oxo-10-vinyl-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

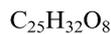
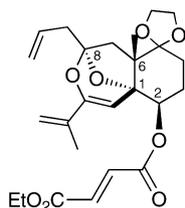
$[\alpha]_D^{20} = -5$  (*c* 1.24, CHCl<sub>3</sub>)

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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*Tetrahedron: Asymmetry 17 (2006) 2565*



But-2-enedioic acid 8-allyl-10-isopropenyl-6-methyl-5-oxo-9,12-dioxatricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-5-one

Ee = 71%

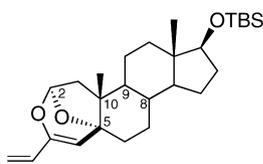
$[\alpha]_D^{20} = -33$  (c 1.17, CHCl<sub>3</sub>)

Source of chirality: (S)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*S*,8*R*)

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$[\alpha]_D^{20} = +30$  (c 1.37, CHCl<sub>3</sub>)

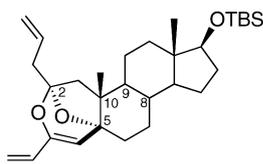
mp = 91–93 °C

Source of chirality: chiral pool

Absolute configuration: (2*R*,5*R*,8*S*,9*S*,10*R*)

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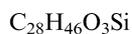
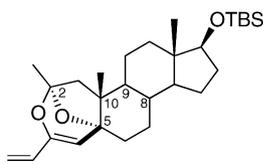
$[\alpha]_D^{20} = +32$  (c 1.70, CHCl<sub>3</sub>)

Source of chirality: chiral pool

Absolute configuration: (2*R*,5*R*,8*S*,9*S*,10*R*)

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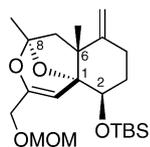
$[\alpha]_D^{20} = +40$  (c 1.73, CHCl<sub>3</sub>)

Source of chirality: chiral pool

Absolute configuration: (2*R*,5*R*,8*S*,9*S*,10*R*)

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$C_{22}H_{38}O_5Si$

*tert*-Butyl-(10-methoxymethoxymethyl-6,8-dimethyl-5-methylene-9,12-dioxo-tricyclo[6.3.1.0<sup>0,0</sup>]dodec-10-en-2-yloxy)-dimethylsilane

Ee = 71%

$[\alpha]_D^{20} = -33$  (*c* 0.55,  $CHCl_3$ )

Source of chirality: (*S*)-(-)-proline

Absolute configuration: (1*R*,2*R*,6*R*,8*R*)