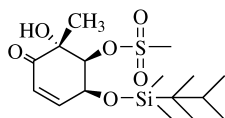


Stereochemistry abstracts

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_{16}H_{30}O_6SSi$

(2*R*,3*S*,4*S*)-3-Methansulfonyloxy-4-(dimethylhexylsilyl)oxy-2-hydroxy-2-methyl-5-cyclohexen-1-one

Ee >98%

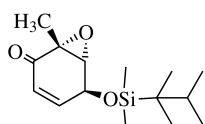
$[\alpha]_D^{20} = +28.2$  (c 1.0,  $CH_2Cl_2$ )

Source of chirality: enzymatic catalysis

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

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_{15}H_{16}O_3Si$

(1*R*,5*S*,6*R*)-5-(Dimethylhexylsilyloxy)-1-methyl-7-oxa-bibicyclo[4.1.0]hept-3-en-2-one

Ee >98%

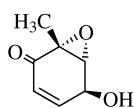
$[\alpha]_D^{20} = -66.0$  (c 1.23,  $CH_2Cl_2$ )

Source of chirality: enzymatic catalysis

Absolute configuration: (1*R*,5*S*,6*R*)

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_7H_8O_3$

(1*R*,5*S*,6*R*)-5-Hydroxy-1-methyl-7-oxa-bibicyclo[4.1.0]hept-3-en-2-one

Ee >98%

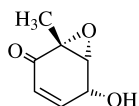
$[\alpha]_D^{20} = -147.1$  (c 1.3,  $CH_2Cl_2$ )

Source of chirality: enzymatic catalysis

Absolute configuration: (1*R*,5*S*,6*R*)

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_7H_8O_3$

(1*R*,5*R*,6*R*)-5-Hydroxy-1-methyl-7-oxa-bibicyclo[4.1.0]hept-3-en-2-one

Ee >98%

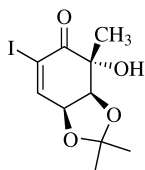
$[\alpha]_D^{20} = -9.2$  (c 1.1,  $CH_2Cl_2$ )

Source of chirality: enzymatic catalysis

Absolute configuration: (1*R*,5*R*,6*R*)

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_{10}H_{13}IO_4$

(2*S*,3*S*,4*R*)-4-Hydroxy-6-iodo-2,2,4-trimethyl-3a,7a-dihydro-4*H*-benzo[1,3]dioxol-5-one

Ee >98%

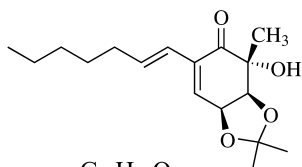
$[\alpha]_D^{20} = -61.5$  (*c* 0.29, MeOH)

Source of chirality: enzymatic catalysis

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

Maitia Labora, Viviana L. Heguaburu, Enrique M. Pandolfi and Valeria Schapiro\*

*Tetrahedron: Asymmetry 19 (2008) 893*



$C_{17}H_{26}O_4$

(2*S*,3*S*,4*R*)-6-Hept-1-enyl-4-hydroxy-2,2,4-trimethyl-3a,7a-dihydro-4*H*-benzo[1,3]dioxol-5-one

Ee >98%

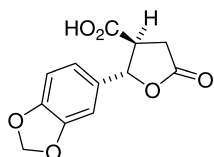
$[\alpha]_D^{20} = -63.6$  (*c* 0.27, CH<sub>2</sub>Cl<sub>2</sub>)

Source of chirality: enzymatic catalysis

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

Hyun-Chul Kim and Oee-Sook Park\*

*Tetrahedron: Asymmetry 19 (2008) 896*



$C_{12}H_{10}O_6$

(2*S*,3*S*)-2-(Benzo[*d*][1,3]dioxol-5-yl)tetrahydro-5-oxofuran-3-carboxylic acid

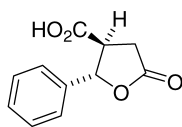
$[\alpha]_D^{25} = -44.2$  (*c* 1.0, MeOH)

Source of chirality: asymmetric synthesis

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

Hyun-Chul Kim and Oee-Sook Park\*

*Tetrahedron: Asymmetry 19 (2008) 896*



$C_{11}H_{10}O_4$

(2*S*,3*S*)-Tetrahydro-5-oxo-2-phenylfuran-3-carboxylic acid

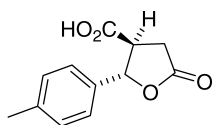
$[\alpha]_D^{25} = -37.4$  (*c* 1.0, MeOH)

Source of chirality: asymmetric synthesis

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

Hyun-Chul Kim and Oee-Sook Park\*

*Tetrahedron: Asymmetry 19 (2008) 896*



(2*S*,3*S*)-Tetrahydro-5-oxo-2-*p*-tolylfuran-3-carboxylic acid

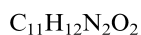
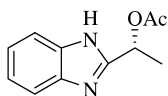
$$[\alpha]_D^{25} = -31.3 \text{ (} c \text{ 1.0, MeOH)}$$

Source of chirality: asymmetric synthesis

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

Ravi Kumar Cheedra, Rachna Sachwani and  
Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*R*)-1-(1*H*-Benzo[*d*]imidazol-2-yl)ethyl acetate

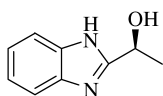
$$[\alpha]_D = +59.4 \text{ (} c \text{ 0.9, CH}_3\text{OH)}$$

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedra, Rachna Sachwani and  
Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*S*)-1-(1*H*-Benzo[*d*]imidazol-2-yl)ethanol

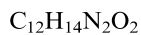
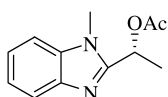
$$[\alpha]_D = -13.5 \text{ (} c \text{ 1.1, CH}_3\text{OH)}$$

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Ravi Kumar Cheedra, Rachna Sachwani and  
Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*R*)-1-(1-Methyl-1*H*-benzo[*d*]imidazol-2-yl)ethyl acetate

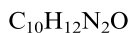
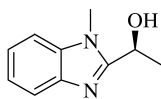
$$[\alpha]_D = +63.6 \text{ (} c \text{ 1.0, CH}_3\text{OH)}$$

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedrala, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(S)-1-(1-Methyl-1*H*-benzo[*d*]imidazol-2-yl)ethanol

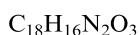
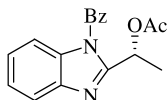
$[\alpha]_D = -8.6$  (*c* 1.0, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Ravi Kumar Cheedrala, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



1-(1-Benzoyl-1*H*-benzo[*d*]imidazol-2-yl)-(1*R*)-ethyl acetate

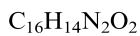
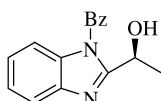
$[\alpha]_D = +27.8$  (*c* 1.0, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedrala, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



2-[1-Hydroxy-(1*S*)-ethyl]-1*H*-benzo[*d*]imidazol-1-yl-phenylmethanone

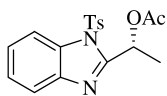
$[\alpha]_D = -36.0$  (*c* 1.0, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Ravi Kumar Cheedrala, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*R*)-1-(1-Tosyl-1*H*-benzo[*d*]imidazol-2-yl)ethyl acetate

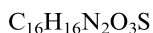
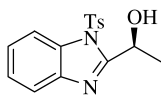
$[\alpha]_D = +23.4$  (*c* 0.9, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedra, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*S*)-1-(1-Tosyl-1*H*-benzo[*d*]imidazol-2-yl)ethanol

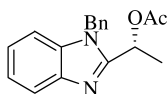
$[\alpha]_D = -21.8$  (*c* 0.8, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Ravi Kumar Cheedra, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*R*)-1-(1-Benzyl-1*H*-benzo[*d*]imidazol-2-yl)ethyl acetate

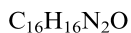
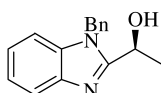
$[\alpha]_D = +12.2$  (*c* 0.8, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedra, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



(*S*)-1-(1-Benzyl-1*H*-benzo[*d*]imidazol-2-yl)ethanol

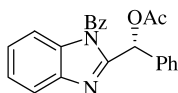
$[\alpha]_D = -15.1$  (*c* 0.9, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Ravi Kumar Cheedra, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



1-Benzoyl-1*H*-benzo[*d*]imidazol-2-yl(phenyl)methyl acetate

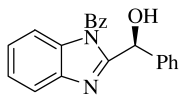
$[\alpha]_D = +2.5$  (*c* 1.1, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*R*)

Ravi Kumar Cheedra, Rachna Sachwani and Palakodety Radha Krishna\*

*Tetrahedron: Asymmetry 19 (2008) 901*



C<sub>21</sub>H<sub>16</sub>N<sub>2</sub>O<sub>2</sub>

2-Hydroxy(phenyl)methyl-1*H*-benzo[*d*]imidazol-1-yl-phenylmethanone

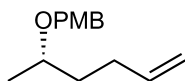
$[\alpha]_D = -6.6$  (*c* 1.3, CH<sub>3</sub>OH)

Source of chirality: kinetic resolution

Absolute configuration: (*S*)

Jian Liu, Ling Zhang, Jinmei He, Liuer He, Bowen Ma, Xinfu Pan and Xuegong She\*

*Tetrahedron: Asymmetry 19 (2008) 906*



C<sub>14</sub>H<sub>20</sub>O<sub>2</sub>

(*S*)-1-((Hex-5-en-2-yloxy)methyl)-4-methoxybenzene

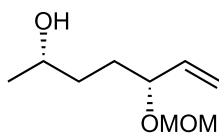
$[\alpha]_D^{25} = +22$  (*c* 2.0, CHCl<sub>3</sub>)

Source of chirality: (*S*)-propylene oxide

Absolute configuration: (*S*)

Jian Liu, Ling Zhang, Jinmei He, Liuer He, Bowen Ma, Xinfu Pan and Xuegong She\*

*Tetrahedron: Asymmetry 19 (2008) 906*



C<sub>9</sub>H<sub>18</sub>O<sub>3</sub>

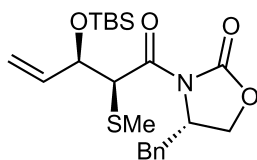
(*2S,5R*)-5-(Methoxymethoxy)hept-6-en-2-ol

$[\alpha]_D^{25} = +13$  (*c* 0.3, CHCl<sub>3</sub>)

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

Jian Liu, Ling Zhang, Jinmei He, Liuer He, Bowen Ma, Xinfu Pan and Xuegong She\*

*Tetrahedron: Asymmetry 19 (2008) 906*



C<sub>22</sub>H<sub>33</sub>NO<sub>4</sub>SSi

(*S*)-4-Benzyl-3-((*2S,3R*)-3-(*tert*-butyldimethylsilyloxy)-2-(methylthio)pent-4-enoyl)oxazolidin-2-one

Ee >98% [by chiral HPLC]

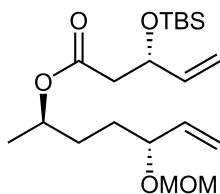
$[\alpha]_D^{25} = +28.6$  (*c* 3.45, CHCl<sub>3</sub>)

Source of chirality: Evans Aldol reaction

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

Jian Liu, Ling Zhang, Jinmei He, Luer He, Bowen Ma, Xinfu Pan and Xuegong She\*

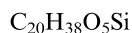
*Tetrahedron: Asymmetry* 19 (2008) 906



$$[\alpha]_D^{25} = +39.6 (c 4.0, \text{CHCl}_3)$$

Source of chirality: Mitsunobu reaction

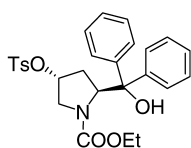
Absolute configuration: (S,2S,5R)



(S)-((2R,5R)-5-(Methoxymethoxy)hept-6-en-2-yl) 3-(tert-butyl dimethylsilyloxy)pent-4-enoate

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao, Lu-Yong Wu and Yong-Min Liang\*

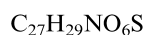
*Tetrahedron: Asymmetry* 19 (2008) 912



$$[\alpha]_D^{20} = +46.5 (c 1.0, \text{CH}_2\text{Cl}_2)$$

Absolute configuration: (2S,4R)

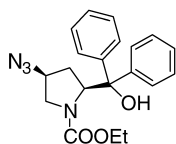
Source of chirality: *trans*-4-hydroxyl-L-proline



(2S,4R)-Ethyl 2-(hydroxydiphenylmethyl)-4-(tosyloxy)pyrrolidine-1-carboxylate

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao, Lu-Yong Wu and Yong-Min Liang\*

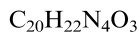
*Tetrahedron: Asymmetry* 19 (2008) 912



$$[\alpha]_D^{20} = +87.6 (c 1.2, \text{CH}_2\text{Cl}_2)$$

Absolute configuration: (2S,4S)

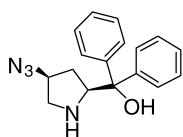
Source of chirality: *trans*-4-hydroxyl-L-proline



(2S,4S)-Ethyl 4-azido-2-(hydroxydiphenylmethyl)pyrrolidine-1-carboxylate

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao, Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry* 19 (2008) 912



$$[\alpha]_D^{20} = -62.7 (c 1.5, \text{CH}_2\text{Cl}_2)$$

Absolute configuration: (2S,4S)

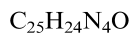
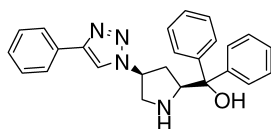
Source of chirality: *trans*-4-hydroxyl-L-proline



((2S,4S)-4-Azidopyrrolidin-2-yl)diphenylmethanol

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



Diphenyl((2*S*,4*S*)-4-(4-phenyl-1*H*-1,2,3-triazol-1-yl)pyrrolidin-2-yl)methanol

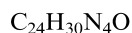
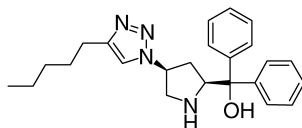
$$[\alpha]_D^{20} = -150.2 (c 1.2, CH_2Cl_2)$$

Absolute configuration: (2*S*,4*R*)

Source of chirality: *trans*-4-hydroxyl-L-proline

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



((2*S*,4*S*)-4-(4-Pentyl-1*H*-1,2,3-triazol-1-yl)pyrrolidin-2-yl)diphenylmethanol

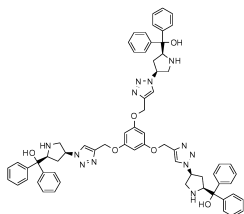
$$[\alpha]_D^{20} = -103.9 (c 1.2, CH_2Cl_2)$$

Absolute configuration: (2*S*,4*R*)

Source of chirality: *trans*-4-hydroxyl-L-proline

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



(2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)-4,4',4''-(4,4',4''-(Benzene-1,3,5-triyltris(oxy))tris(methylene)tris(1*H*-1,2,3-triazole-4,1-diyl))tris(pyrrolidine-4,2-diyl)tris(diphenylmethanol)

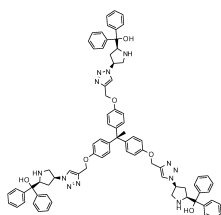
$$[\alpha]_D^{20} = -160.7 (c 1.0, CH_2Cl_2)$$

Absolute configuration: (2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)

Source of chirality: *trans*-4-hydroxyl-L-proline

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



(2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)-4,4',4''-(4,4',4''-(4,4',4''-(Ethane-1,1,1-triyl)tris(benzene-4,1-diyl))tris(oxy)tris(methylene)tris(1*H*-1,2,3-triazole-4,1-diyl))tris(pyrrolidine-4,2-diyl)tris(diphenylmethanol)

$$[\alpha]_D^{20} = -92.1 (c 1.0, CH_2Cl_2)$$

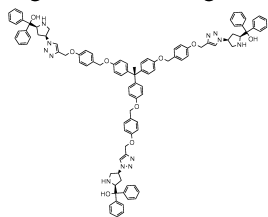
Absolute configuration: (2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)

Source of chirality: *trans*-4-hydroxyl-L-proline



Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



$C_{101}H_{96}N_{12}O_9$

(2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)-4,4',4''-(4,4',4''-(4,4',4''-(Ethane-1,1,1-triyl)tris(benzene-4,1-diyl))tris(oxy)tris(methylene)tris(benzene-4,1-diyl))tris(oxy)tris(methylene)tris(1*H*-1,2,3-triazole-4,1-diyl))tris(pyrrolidine-4,2-diyl)tris(diphenylmethanol)

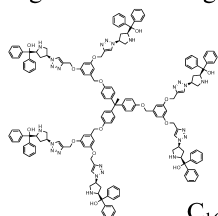
$[\alpha]_D^{20} = -105.6$  (*c* 1.3,  $CH_2Cl_2$ )

Absolute configuration: (2*S*,2'*S*,2''*S*,4*S*,4'*S*,4''*S*)

Source of chirality: *trans*-4-hydroxyl-L-proline

Yan-Ning Niu, Ze-Yi Yan, Gao-Qiang Li, Hai-Long Wei, Guo-Lin Gao,  
Lu-Yong Wu and Yong-Min Liang\*

*Tetrahedron: Asymmetry 19 (2008) 912*



$C_{161}H_{156}N_{24}O_{15}$

(2*S*,2'*S*,2''*S*,2'''*S*,2''''*S*,2'''''*S*,4*S*,4'*S*,4''*S*,4'''*S*,4''''*S*,4'''''*S*)-4,4',4''',4''''-(4,4',4''',4''''-(4,4',4''',4''''-(5,5',5''-(4,4',4''-(Ethane-1,1,1-triyl)tris(benzene-4,1-diyl))tris(oxy)tris(methylene)tris(benzene-5,3,1-triyl))hexakis(oxy)hexakis(methylene)hexakis(1*H*-1,2,3-triazole-4,1-diyl))hexakis(pyrrolidine-4,2-diyl)hexakis(diphenylmethanol)

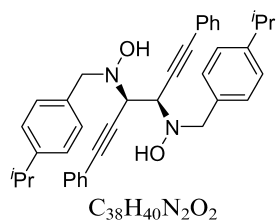
$[\alpha]_D^{20} = -54.8$  (*c* 1.2,  $CH_2Cl_2$ )

Absolute configuration: (2*S*,2'*S*,2''*S*,2'''*S*,2''''*S*,2'''''*S*,4*S*,4'*S*,4''*S*,4'''*S*,4''''*S*,4'''''*S*)

Source of chirality: *trans*-4-hydroxyl-L-proline

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and  
Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



$C_{38}H_{40}N_2O_2$

*N,N'*-[(*R,R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diyl]bis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 81%

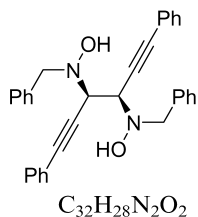
$[\alpha]_D^{25} = +14$  (*c* 0.824, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and  
Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



$C_{32}H_{28}N_2O_2$

*N,N'*-[(*R,R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diyl]bis[*N*-(benzyl)hydroxylamine]

Ee = 24%

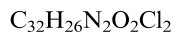
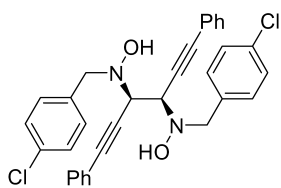
$[\alpha]_D^{25} = +7$  (*c* 0.73, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



*N,N'*-(*R,R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diylbis[*N*-(4-chlorobenzyl)hydroxylamine]

Ee = 11%

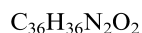
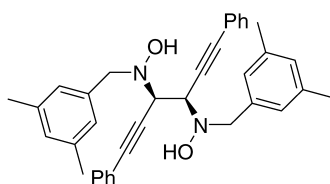
$[\alpha]_D^{25} = +5$  (*c* 0.488, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



*N,N'*-(*R,R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diylbis[*N*-(3,5-dimethylbenzyl)hydroxylamine]

Ee = 47%

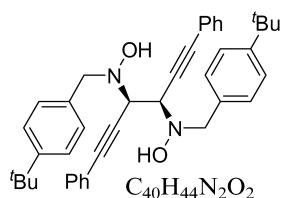
$[\alpha]_D^{25} = +10$  (*c* 0.584, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



*N,N'*-(*R,R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diylbis[*N*-(4-*t*-butylbenzyl)hydroxylamine]

Ee = 37%

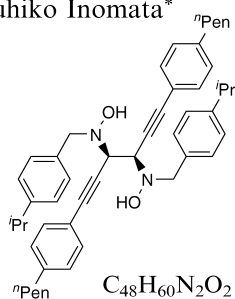
$[\alpha]_D^{25} = +5$  (*c* 0.884, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



*N,N'*-(*R,R*)-1,6-Bis(4-pentylphenyl)hexa-1,5-diyne-3,4-diylbis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 76%

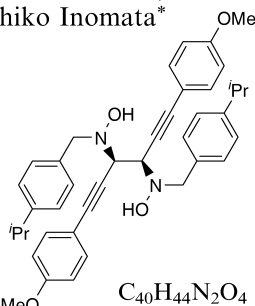
$[\alpha]_D^{25} = +13$  (*c* 0.892, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry* 19 (2008) 921



$C_{40}H_{44}N_2O_4$

*N,N'*-[(*R,R*)-1,6-Bis(4-methoxyphenyl)hexa-1,5-diyne-3,4-diyl]bis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 72%

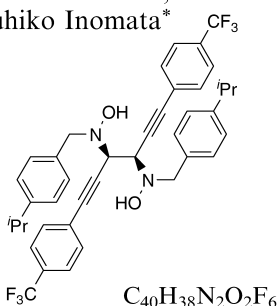
$[\alpha]_D^{25} = +12$  (c 0.788, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry* 19 (2008) 921



$C_{40}H_{38}N_2O_2F_6$

*N,N'*-[(*R,R*)-1,6-Bis[4-(trifluoromethyl)phenyl]hexa-1,5-diyne-3,4-diyl]bis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 59%

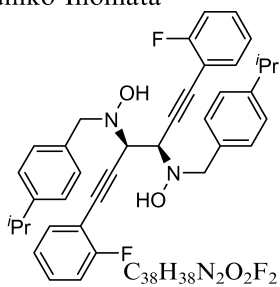
$[\alpha]_D^{25} = +9$  (c 0.912, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry* 19 (2008) 921



$C_{38}H_{38}N_2O_2F_2$

*N,N'*-[(*R,R*)-1,6-Bis(2-fluorophenyl)hexa-1,5-diyne-3,4-diyl]bis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 74%

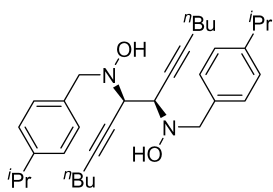
$[\alpha]_D^{25} = +11$  (c 0.948, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry* 19 (2008) 921



$C_{34}H_{48}N_2O_2$

*N,N'*-[(*R,R*)-Tetradeca-5,9-diyne-7,8-diyl]bis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 79%

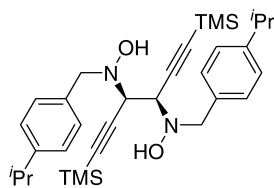
$[\alpha]_D^{25} = -10$  (c 0.248, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



$C_{32}H_{48}N_2O_2Si_2$

*N,N'*-(*R,R*)-1,6-Bis(trimethylsilyl)hexa-1,5-diyne-3,4-diylbis[*N*-(4-isopropylbenzyl)hydroxylamine]

Ee = 70%

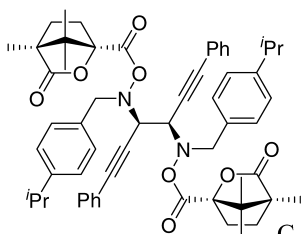
$[\alpha]_D^{25} = -9$  (c 0.536, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate

Absolute configuration: (*R,R*)

Masakazu Serizawa, Shuhei Fujinami, Yutaka Ukaji\* and Katsuhiko Inomata\*

*Tetrahedron: Asymmetry 19 (2008) 921*



$C_{58}H_{64}N_2O_8$

*N,N'*-(*3R,4R*)-1,6-Diphenylhexa-1,5-diyne-3,4-diylbis{*N*-(4-isopropylbenzyl)-*O*-[(*1S'*,*4R'*)-4,7,7-trimethyl-2-oxabicyclo[2.2.1]heptane-3-one-1-carbonyl]hydroxylamine}

Ee = 100%

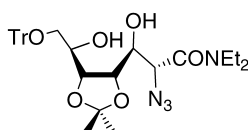
$[\alpha]_D^{25} = +80$  (c 0.14, EtOH)

Source of chirality: dicyclohexyl (*R,R*)-tartrate, (*1S,4R*)-camphanic chloride

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

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{33}H_{40}N_4O_6$

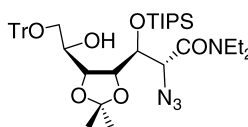
2-Azido-*N,N*-diethyl-4,5-*O*-isopropylidene-7-*O*-trityl-*D*-glycero-*D*-allo-heptonamide

$[\alpha]_D^{21} = -28$  (c 1.1,  $CHCl_3$ )

Source of chirality: *D*-ribose and stereoselective syntheses

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{42}H_{60}N_4O_6Si$

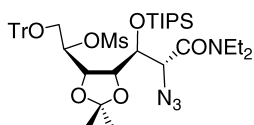
2-Azido-*N,N*-diethyl-4,5-*O*-isopropylidene-3-*O*-triisopropylsilyl-7-*O*-trityl-*D*-glycero-*D*-allo-heptonamide

$[\alpha]_D^{22} = -10$  (c 0.3,  $CH_2Cl_2$ )

Source of chirality: *D*-ribose and stereoselective syntheses

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{43}H_{62}N_4O_8SSi$

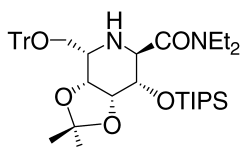
2-Azido-*N,N*-diethyl-4,5-*O*-isopropylidene-6-*O*-mesyl-3-*O*-triisopropylsilyl-7-*O*-trityl-*D*-glycero-*D*-allo-heptonamide

$$[\alpha]_D^{20} = +24 (c 0.37, CH_2Cl_2)$$

Source of chirality: *D*-ribose and stereoselective syntheses

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{42}H_{60}N_2O_5Si$

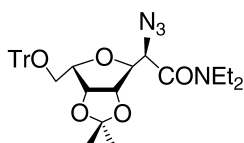
*N,N*-Diethyl-2,6-dideoxy-2,6-imino-4,5-*O*-isopropylidene-7-*O*-trityl-*L*-glycero-*D*-allo-heptonamide

$$[\alpha]_D^{22} = -10.5 (c 0.26, CH_2Cl_2)$$

Source of chirality: *D*-ribose, stereoselective syntheses and stereospecific cyclization

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{33}H_{38}N_4O_5$

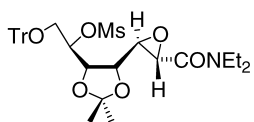
3,6-Anhydro-2-azido-*N,N*-diethyl-4,5-*O*-isopropylidene-7-*O*-trityl-*L*-glycero-*D*-allo-heptonamide

$$[\alpha]_D^{25} = +7.5 (c 1.5, CHCl_3)$$

Source of chirality: *D*-ribose, stereoselective syntheses and stereospecific cyclization

M.-Soledad Pino-González,\* Carmen Assiego and Noé Oña

*Tetrahedron: Asymmetry 19 (2008) 932*



$C_{34}H_{41}NO_8S$

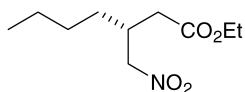
2,3-Anhydro-*N,N*-diethyl-4,5-*O*-isopropylidene-6-*O*-mesyl-7-*O*-trityl-*D*-glycero-*D*-altro-heptonamide

$$[\alpha]_D^{20} = -6 (c 1.01, CH_2Cl_2)$$

Source of chirality: *D*-ribose and stereoselective synthesis

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{10}H_{19}NO_4$

Ethyl (*R*)-(-)-3-nitromethylheptanoate

Ee >99%

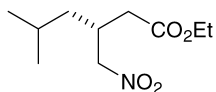
$[\alpha]_D^{25} = -7.0$  (*c* 0.35,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{10}H_{19}NO_4$

Ethyl (*R*)-(-)-5-methyl-3-nitromethylhexanoate

Ee >99%

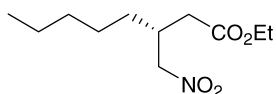
$[\alpha]_D = -6.5$  (*c* 0.95,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{11}H_{21}NO_4$

Ethyl (*R*)-(-)-3-nitromethyloctanoate

Ee >99.9%

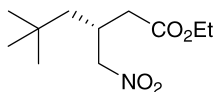
$[\alpha]_D = -8.8$  (*c* 0.25,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{11}H_{21}NO_4$

Ethyl (*R*)-(-)-5,5-dimethyl-3-nitromethylhexanoate

Ee = 95%

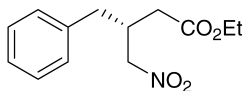
$[\alpha]_D = -6.8$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{13}H_{17}NO_4$

Ethyl (*R*)-(-)-3-nitromethyl-4-phenylbutanoate

Ee = 94%

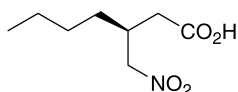
$[\alpha]_D = -11$  (*c* 0.7,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_8H_{15}NO_4$

(*S*)-(+)-3-Nitromethylheptanoic acid

Ee = 87%

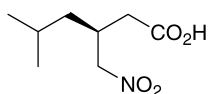
$[\alpha]_D = +9.2$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_8H_{15}NO_4$

(*S*)-(+)-4-Methyl-3-nitromethylhexanoic acid

Ee = 92%

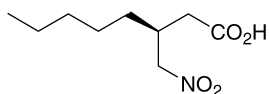
$[\alpha]_D = +6.0$  (*c* 1.0, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_9H_{17}NO_4$

(*S*)-(+)-3-Nitromethyloctanoic acid

Ee = 94%

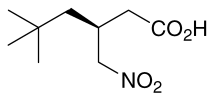
$[\alpha]_D = +11.4$  (*c* 0.5,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_9H_{17}NO_4$

(*S*)-(+)-5,5-Dimethyl-3-nitromethylhexanoic acid

Ee = 65%

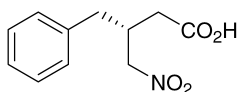
$[\alpha]_D = +4.0$  (*c* 0.1,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_9H_{17}NO_4$

(*R*)-(-)-3-Nitromethyl-4-phenylbutanoic acid

Ee = 94%

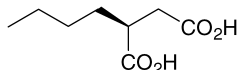
$[\alpha]_D = -11.0$  (*c* 0.7,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_7H_{14}O_4$

(*S*)-(-)-2-Butylbutanedioic acid

Ee = 87%

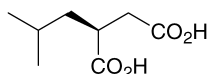
$[\alpha]_D = -24$  (*c* 0.85, EtOH)

Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_7H_{14}O_4$

(*S*)-(-)-2-(2-Methylpropyl)butanedioic acid

Ee = 92%

$[\alpha]_D = -24.0$  (*c* 1.0, EtOH)

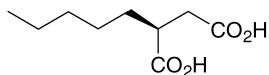
Source of chirality: enzymatic resolution

Absolute configuration: (3*S*)



Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



(S)-(-)-2-Pentylbutanedioic acid

Ee = 94%

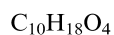
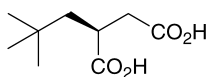
$[\alpha]_D = -22.1$  (c 1.1, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



(S)-(-)-2-(2,2-Dimethyl)propylbutanedioic acid

Ee = 65%

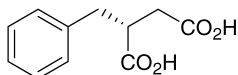
$[\alpha]_D = -12.0$  (c 0.45,  $CHCl_3$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3S)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



(R)-(+)-2-(Phenylmethyl)butanedioic acid

Ee = 94%

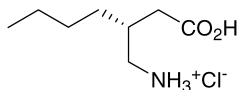
$[\alpha]_D = +24.0$  (c 3.1, AcOEt)

Source of chirality: enzymatic resolution

Absolute configuration: (3R)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



(R)-(-)-3-Aminomethylheptanoic acid hydrochloride

Ee >99%

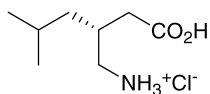
$[\alpha]_D = -5.0$  (c 0.45,  $H_2O$ )

Source of chirality: enzymatic resolution

Absolute configuration: (3R)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_8H_{18}NO_2Cl$

(*R*)-(-)-3-Aminomethyl-5-methylhexanoic acid hydrochloride

Ee >99.9%

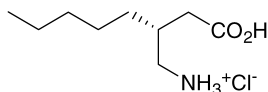
$[\alpha]_D = -10.5$  (*c* 1, H<sub>2</sub>O)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_9H_{20}NO_2Cl$

(*R*)-(-)-3-Aminomethyloctanoic acid hydrochloride

Ee >99%

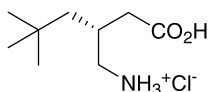
$[\alpha]_D = -3.3$  (*c* 1, H<sub>2</sub>O)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_9H_{20}NO_2Cl$

(*R*)-(-)-3-Aminomethyl-5,5-dimethylhexanoic acid hydrochloride

Ee = 95%

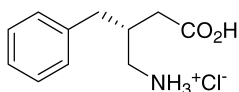
$[\alpha]_D = -9.7$  (*c* 1, H<sub>2</sub>O)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{11}H_{16}NO_2Cl$

(*R*)-(-)-3-Aminomethyl-4-phenylbutanoic acid hydrochloride

Ee = 94%

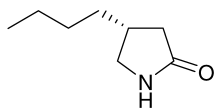
$[\alpha]_D = -6.4$  (*c* 1.45, H<sub>2</sub>O)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



C<sub>8</sub>H<sub>14</sub>NO

(*R*)-(+)-4-Butyl-2-pyrrolidinone

Ee >99%

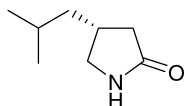
[α]<sub>D</sub> = +4.0 (c 0.25, CHCl<sub>3</sub>)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



C<sub>8</sub>H<sub>14</sub>NO

(*R*)-(+)-4-Isobutyl-2-pyrrolidinone

Ee >99%

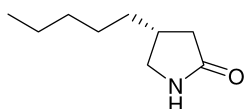
[α]<sub>D</sub> = +2.1 (c 0.5, CHCl<sub>3</sub>)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



C<sub>9</sub>H<sub>16</sub>NO

(*R*)-(+)-4-Pentyl-2-pyrrolidinone

Ee >99%

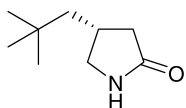
[α]<sub>D</sub> = +3.1 (c 0.85, CHCl<sub>3</sub>)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



C<sub>9</sub>H<sub>16</sub>NO

(*R*)-(-)-4-Neopentyl-2-pyrrolidinone

Ee = 95%

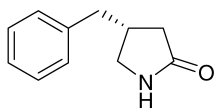
[α]<sub>D</sub> = -7.2 (c 0.75, CHCl<sub>3</sub>)

Source of chirality: enzymatic resolution

Absolute configuration: (3*R*)

Fulvia Felluga,\* Giuliana Pitacco, Ennio Valentin\* and  
Cesare Daniele Venneri

*Tetrahedron: Asymmetry 19 (2008) 945*



$C_{11}H_{12}NO$

(*R*)-(-)-4-Benzyl-2-pyrrolidinone

Ee = 94%

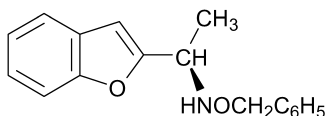
$[\alpha]_D = -5.1$  (*c* 0.5, MeOH)

Source of chirality: enzymatic resolution

Absolute configuration: (*3R*)

Mariusz J. Bosiak, Marek P. Krzemiński, Parasuraman Jaisankar and  
Marek Zaidlewicz\*

*Tetrahedron: Asymmetry 19 (2008) 956*



$C_{17}H_{17}NO_2$

(*R*)-(+)-*N*-(1-(Benzofuran-2-yl)ethyl)-*O*-benzylhydroxylamine

Ee = 92%

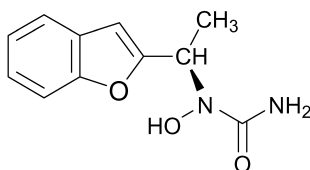
$[\alpha]_D^{20} = +46.6$  (*c* 1.77, CHCl<sub>3</sub>)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*), chemical correlation

Mariusz J. Bosiak, Marek P. Krzemiński, Parasuraman Jaisankar and  
Marek Zaidlewicz\*

*Tetrahedron: Asymmetry 19 (2008) 956*



$C_{11}H_{12}N_2O_3$

(*R*)-(+)-*N*-(1-(Benzofuran-2-yl)ethyl)-*N*-hydroxyurea

Ee = 99%

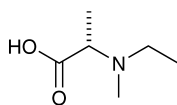
$[\alpha]_D^{20} = +14.4$  (*c* 0.42, DMSO)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*), chemical correlation

Maciej Stodulski and Jacek Mlynarski\*

*Tetrahedron: Asymmetry 19 (2008) 970*



$C_6H_{13}NO_2$

*N*-Ethyl-*N*-methyl-*L*-alanine

Ee = 100%

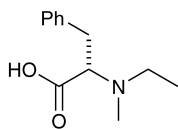
$[\alpha]_D^{19.8} = +5.0$  (*c* 0.50, EtOH)

Source of chirality: *L*-alanine

Absolute configuration: (*S*)

Maciej Stodulski and Jacek Mlynarski\*

*Tetrahedron: Asymmetry 19 (2008) 970*



$C_{12}H_{17}NO_2$

*N*-Ethyl-*N*-methyl-*L*-phenylalanine

Ee = 100%

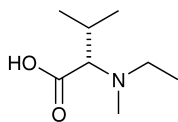
$[\alpha]_D^{19.8} = +24.7$  (*c* 1.00, EtOH)

Source of chirality: *L*-phenylalanine

Absolute configuration: (*S*)

Maciej Stodulski and Jacek Mlynarski\*

*Tetrahedron: Asymmetry 19 (2008) 970*



$C_8H_{17}NO_2$

*N*-Ethyl-*N*-methyl-*L*-valine

Ee = 100%

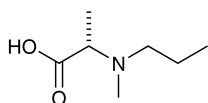
$[\alpha]_D^{18.9} = +17.9$  (*c* 0.10, EtOH)

Source of chirality: *L*-valine

Absolute configuration: (*S*)

Maciej Stodulski and Jacek Mlynarski\*

*Tetrahedron: Asymmetry 19 (2008) 970*



$C_7H_{15}NO_2$

*N*-Methyl-*N*-propyl-*L*-alanine

Ee = 99%

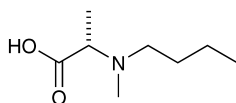
$[\alpha]_D^{20.3} = +3.2$  (*c* 0.25, EtOH)

Source of chirality: *L*-alanine

Absolute configuration: (*S*)

Maciej Stodulski and Jacek Mlynarski\*

*Tetrahedron: Asymmetry 19 (2008) 970*



$C_8H_{17}NO_2$

*N*-Butyl-*N*-methyl-*L*-alanine

Ee = 55%

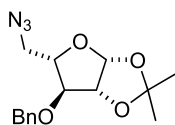
$[\alpha]_D^{19.8} = +3.2$  (*c* 0.50, EtOH)

Source of chirality: *L*-alanine

Absolute configuration: (*S*)

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry 19 (2008) 976*



$C_{15}H_{19}N_3O_4$

5-Azido-3-O-benzyl-5-deoxy-1,2-O-isopropylidene- $\beta$ -L-arabinofuranose

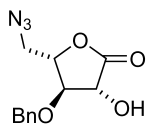
Ee = 100%

$[\alpha]_D^{23} = -55.8$  (c 1.1,  $CHCl_3$ )

Source of chirality: L-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry 19 (2008) 976*



$C_{12}H_{13}N_3O_4$

5-Azido-3-O-benzyl-5-deoxy-L-arabinono-1,4-lactone

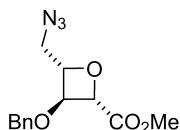
Ee = 100%

$[\alpha]_D^{23} = -158$  (c 1.16,  $CHCl_3$ )

Source of chirality: L-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry 19 (2008) 976*



$C_{13}H_{15}N_3O_4$

Methyl 2,4-anhydro-5-azido-3-O-benzyl-5-deoxy-L-ribonate

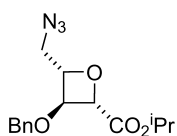
Ee = 100%

$[\alpha]_D^{23} = -169$  (c 1.25,  $CHCl_3$ )

Source of chirality: L-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry 19 (2008) 976*



$C_{15}H_{19}N_3O_4$

Isopropyl 2,4-anhydro-5-azido-3-O-benzyl-5-deoxy-L-ribonate

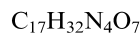
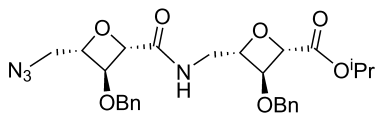
Ee = 100%

$[\alpha]_D^{23} = -160$  (c 1.5,  $CHCl_3$ )

Source of chirality: L-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry* 19 (2008) 976



Isopropyl 2,4-anhydro-5-(2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido)-3-*O*-benzyl-5-deoxy-*L*-ribonate

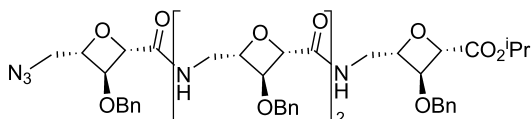
Ee = 100%

$[\alpha]_D^{23} = -87.7$  (*c* 0.71, CHCl<sub>3</sub>)

Source of chirality: *L*-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry* 19 (2008) 976



Isopropyl 2,4-anhydro-5-[2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)-2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)-2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)]-3-*O*-benzyl-5-deoxy-*L*-ribonate

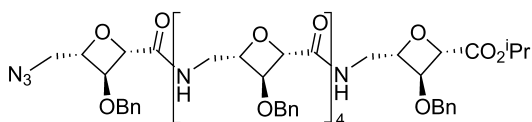
Ee = 100%

$[\alpha]_D^{22} = -176$  (*c* 0.2, CHCl<sub>3</sub>)

Source of chirality: *L*-arabinose as starting material

Beatrice Lopez-Ortega, Sarah F. Jenkinson, Timothy D. W. Claridge and George W. J. Fleet\*

*Tetrahedron: Asymmetry* 19 (2008) 976



Isopropyl 2,4-anhydro-5-[2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)-2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)-2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)-2,4-anhydro-5-azido-3-*O*-benzyl-5-deoxy-*L*-ribo-2,4-anhydronamido-(*N*→5)]-3-*O*-benzyl-5-deoxy-*L*-ribonate

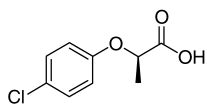
Ee = 100%

$[\alpha]_D^{23} = -158$  (*c* 0.3, CHCl<sub>3</sub>)

Source of chirality: *L*-arabinose as starting material

Alessandra Ammazzalorso, Giancarlo Bettoni, Barbara De Filippis, Marialuigia Fantacuzzi, Letizia Giampietro, Antonella Giancristofaro, Cristina Maccallini, Nazzareno Re, Rosa Amoroso\* and Cecilia Coletti

*Tetrahedron: Asymmetry* 19 (2008) 989



(*R*)-2-(4-Chlorophenoxy)propanoic acid

Ee = 98%

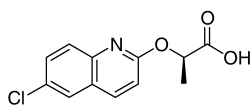
$[\alpha]_D = +41.9$  (*c* 1.2, CH<sub>3</sub>OH)

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

Absolute configuration: (*R*)

Alessandra Ammazzalorso, Giancarlo Bettoni, Barbara De Filippis, Marialuigia Fantacuzzi, Letizia Giampietro, Antonella Giancristofaro, Cristina Maccallini, Nazzareno Re, Rosa Amoroso\* and Cecilia Coletti

*Tetrahedron: Asymmetry 19 (2008) 989*



$C_{12}H_{10}ClNO_3$

(*R*)-2-[(6-Chloroquinolin-2-yl)oxy]propanoic acid

Ee = 99%

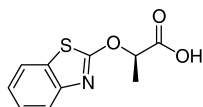
$[\alpha]_D = +110.7$  (c 2.0,  $CHCl_3$ )

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

Absolute configuration: (*R*)

Alessandra Ammazzalorso, Giancarlo Bettoni, Barbara De Filippis, Marialuigia Fantacuzzi, Letizia Giampietro, Antonella Giancristofaro, Cristina Maccallini, Nazzareno Re, Rosa Amoroso\* and Cecilia Coletti

*Tetrahedron: Asymmetry 19 (2008) 989*



$C_{10}H_9NO_3S$

(*R*)-2-(1,3-Benzothiazol-2-yloxy)propanoic acid

Ee = 98%

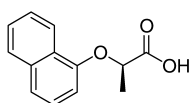
$[\alpha]_D = +35.9$  (c 2.0,  $CH_3OH$ )

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

Absolute configuration: (*R*)

Alessandra Ammazzalorso, Giancarlo Bettoni, Barbara De Filippis, Marialuigia Fantacuzzi, Letizia Giampietro, Antonella Giancristofaro, Cristina Maccallini, Nazzareno Re, Rosa Amoroso\* and Cecilia Coletti

*Tetrahedron: Asymmetry 19 (2008) 989*



$C_{13}H_{12}O_3$

(*R*)-2-(1-Naphthyloxy)propanoic acid

Ee = 99%

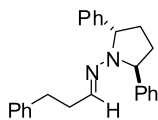
$[\alpha]_D = -61.3$  (c 1.8,  $CHCl_3$ )

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

Absolute configuration: (*R*)

Abel Ros, Elena Díez, Eugenia Marqués-López, Eloísa Martín-Zamora, Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo, Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{25}H_{26}N_2$

(*2S,5S*)-1-[(3-Phenyl)propylideneamino]-2,5-diphenylpyrrolidine

Ee = 100%

$[\alpha]_D^{20} = -163.9$  (c 1.4,  $CHCl_3$ )

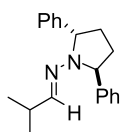
Source of chirality: asymmetric synthesis

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



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Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
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*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{20}H_{24}N_2$

(2*S*,5*S*)-1-[(2-Methyl)propylideneamine]-2,5-diphenylpyrrolidine

Ee = 100%

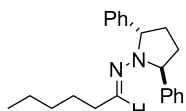
$[\alpha]_D^{20} = -149.7$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

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Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{22}H_{28}N_2$

(2*S*,5*S*)-1-Hexylideneamine-2,5-diphenylpyrrolidine

Ee = 100%

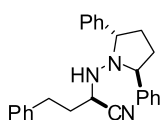
$[\alpha]_D^{20} = -149.0$  (*c* 1.0,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Abel Ros, Elena Díez, Eugenia Marqués-López, Eloísa Martín-Zamora,  
Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{26}H_{27}N_3$

(*R*)-2-[(2*S*,5*S*)-2,5-Diphenylpyrrolidin-1-ylamino]-4-phenylbutanenitrile

Ee = 100%

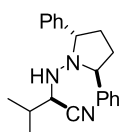
$[\alpha]_D^{20} = -138.0$  (*c* 1.0,  $CH_2Cl_2$ )

Source of chirality: asymmetric synthesis

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

Abel Ros, Elena Díez, Eugenia Marqués-López, Eloísa Martín-Zamora,  
Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{21}H_{25}N_3$

(*R*)-2-[(2*S*,5*S*)-2,5-Diphenylpyrrolidin-1-ylamino]-3-methylbutanenitrile

Ee = 100%

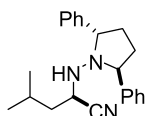
$[\alpha]_D^{20} = -125.3$  (*c* 1.1,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

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Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{22}H_{27}N_3$

(*R*)-2-[(2*S*,5*S*)-2,5-Diphenylpyrrolidin-1-ylamino]-4-methylpentanenitrile

Ee = 100%

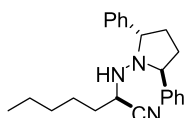
$[\alpha]_D^{20} = -142.8$  (*c* 1.5,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

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Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{23}H_{29}N_3$

(*R*)-2-[(2*S*,5*S*)-2,5-Diphenylpyrrolidin-1-ylamino]heptanenitrile

Ee = 100%

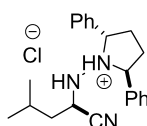
$[\alpha]_D^{20} = -152.3$  (*c* 1.1,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Abel Ros, Elena Díez, Eugenia Marqués-López, Eloísa Martín-Zamora,  
Juan Vázquez, Javier Iglesias-Sigüenza, Rafael R. Pappalardo,  
Eleuterio Álvarez, José M. Lassaletta\* and Rosario Fernández\*

*Tetrahedron: Asymmetry 19 (2008) 998*



$C_{22}H_{28}ClN_3$

(*R*)-2-[(2*S*,5*S*)-2,5-Diphenylpyrrolidin-1-ylamino]-4-methylpentanenitrile hydrochloride

Ee = 100%

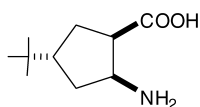
$[\alpha]_D^{20} = -106.1$  (*c* 1.2,  $CHCl_3$ )

Source of chirality: asymmetric synthesis

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

Enikő Forró and Ferenc Fülöp\*

*Tetrahedron: Asymmetry 19 (2008) 1005*



$C_{10}H_{19}NO_2$

(1*R*,2*S*,4*R*)-2-Amino-4-*tert*-butylcyclopentanecarboxylic acid

Ee >99% by GC on a CP-Chirasil-Dex CB column  
after double derivatisation

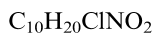
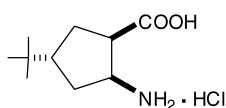
$[\alpha]_D^{25} = -6$  (*c* 0.2,  $H_2O$ )

Source of chirality: Lipolase-catalysed enantioselective  
hydrolysis

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

Enikő Forró and Ferenc Fülöp\*

*Tetrahedron: Asymmetry 19 (2008) 1005*



(1*R*,2*S*,4*R*)-2-Amino-4-*tert*-butylcyclopentanecarboxylic acid hydrochloride

Ee >99% by GC on a CP-Chirasil-Dex CB column after double derivatisation

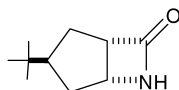
$[\alpha]_D^{25} = -5$  (*c* 0.15, H<sub>2</sub>O)

Source of chirality: Lipolase-catalysed enantioselective hydrolysis

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

Enikő Forró and Ferenc Fülöp\*

*Tetrahedron: Asymmetry 19 (2008) 1005*



(1*S*,3*S*,5*R*)-4-*tert*-Butyl-6-azabicyclo[3.2.0]heptan-7-one

Ee = 96% by GC on a CP-Chirasil-Dex CB column

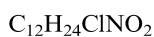
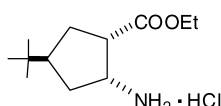
$[\alpha]_D^{25} = +54$  (*c* 0.25, EtOH)

Source of chirality: Lipolase-catalysed enantioselective hydrolysis

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

Enikő Forró and Ferenc Fülöp\*

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Ethyl (1*S*,2*R*,4*S*)-2-amino-4-*tert*-butylcyclopentanecarboxylate hydrochloride

Ee = 95% by GC on a CP-Chirasil-Dex CB column after derivatisation

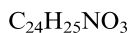
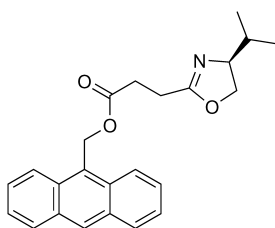
$[\alpha]_D^{25} = +4$  (*c* 0.2, EtOH)

Source of chirality: Lipolase-catalysed enantioselective hydrolysis

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

Olivier Chuzel, Caroline Magnier-Bouvier and Emmanuelle Schulz\*

*Tetrahedron: Asymmetry 19 (2008) 1010*



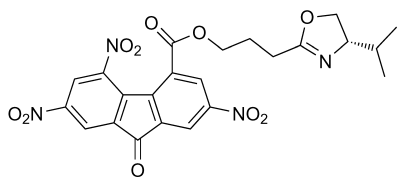
(Anthracen-10-yl)methyl 3-((*S*)-4,5-dihydro-4-isopropylloxazol-2-yl)propanoate

$[\alpha]_{436}^{25} = -56$  (*c* 0.5, CHCl<sub>3</sub>)

Absolute configuration (*S*) (assigned from (*S*)-valinol)

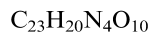
Olivier Chuzel, Caroline Magnier-Bouvier and Emmanuelle Schulz\*

*Tetrahedron: Asymmetry 19 (2008) 1010*



$$[\alpha]_{436}^{25} = -102 \text{ (} c \text{ 0.3, CHCl}_3\text{)}$$

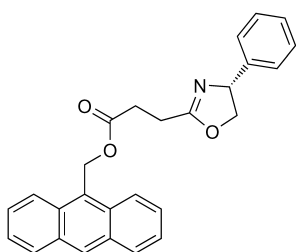
Absolute configuration (*S*) (assigned from (*S*)-valinol)



3-((*S*)-4,5-Dihydro-4-isopropylloxazol-2-yl)propyl 2,5,7-trinitro-9-oxo-9*H*-fluorene-4-carboxylate

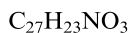
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$$[\alpha]_{436}^{25} = +24 \text{ (} c \text{ 0.6, CHCl}_3\text{)}$$

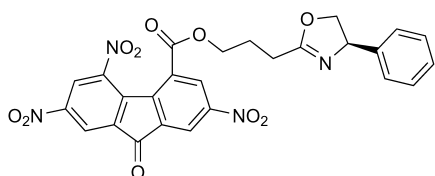
Absolute configuration (*R*) (assigned from (*R*)-phenylglycinol)



(Anthracen-10-yl)methyl 3-((*R*)-4,5-dihydro-4-phenylloxazol-2-yl)propanoate

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$$[\alpha]_{589}^{25} = +33 \text{ (} c \text{ 0.4, CHCl}_3\text{)}$$

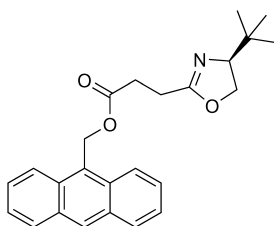
Absolute configuration (*R*) (assigned from (*R*)-phenylglycinol)



3-((*R*)-4,5-Dihydro-4-phenylloxazol-2-yl)propyl 2,5,7-trinitro-9-oxo-9*H*-fluorene-4-carboxylate

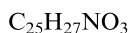
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$$[\alpha]_{436}^{25} = -6 \text{ (} c \text{ 0.4, CHCl}_3\text{)}$$

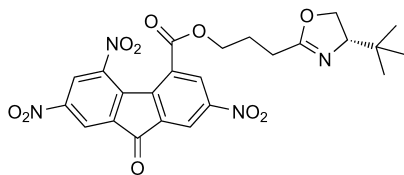
Absolute configuration (*S*) (assigned from (*S*)-*tert*-leucinol)



(Anthracen-10-yl)methyl 3-((*S*)-4-*tert*-butyl-4,5-dihydrooxazol-2-yl)propanoate

Olivier Chuzel, Caroline Magnier-Bouvier and Emmanuelle Schulz\*

*Tetrahedron: Asymmetry 19 (2008) 1010*



$C_{24}H_{22}N_4O_{10}$

3-((*S*)-4-*tert*-Butyl-4,5-dihydrooxazol-2-yl)propyl 2,5,7-trinitro-9-oxo-9*H*-fluorene-4-carboxylate

$[\alpha]_{436}^{25} = -74$  (*c* 0.5,  $CHCl_3$ )

Absolute configuration (*S*) (assigned from (*S*)-*tert*-leucinol)

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*Tetrahedron: Asymmetry 19 (2008) 1020*



$C_{10}H_{10}O_4$

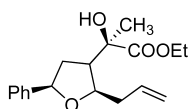
(*R*)-2-Phenyl-2,3-dihydrofuran

$[\alpha]_D^{23} = -66$  (*c* 1.05,  $CHCl_3$ )

Absolute configuration: (*R*)

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*Tetrahedron: Asymmetry 19 (2008) 1020*



$C_{18}H_{24}O_4$

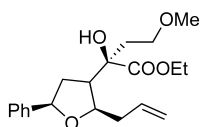
(*R*)-Ethyl-((2*R*,3*R*,5*R*)-2-allyl-5-phenyltetrahydrofuran-3-yl)-2-hydroxypropanoate

$[\alpha]_D^{23} = +15.7$  (*c* 1.3,  $CHCl_3$ )

Absolute configuration: (2*R*,3*R*,5*R*)

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$C_{20}H_{28}O_5$

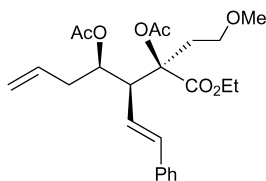
(*S*)-Ethyl-((2*R*,3*S*,5*R*)-2-allyl-5-phenyltetrahydrofuran-3-yl)-2-hydroxy-4-methoxybutanoate

$[\alpha]_D^{25} = -15.3$  (*c* 1.2,  $CHCl_3$ )

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

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*Tetrahedron: Asymmetry 19 (2008) 1020*



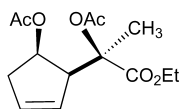
$[\alpha]_D^{23} = +44.9$  (*c* 1.0, CHCl<sub>3</sub>)  
Absolute configuration: (3*R*,4*S*,5*R*)

C<sub>10</sub>H<sub>10</sub>O

(3*R*,4*S*,5*R*)-3-(Ethoxycarbonyl)-1-methoxy-4-styryloct-7-ene-3,5-diyl diacetate

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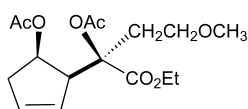
$[\alpha]_D^{23} = -3.5$  (*c* 1.0, CHCl<sub>3</sub>)  
Absolute configuration: (*R*,1*S*,5*R*)

C<sub>14</sub>H<sub>20</sub>O<sub>6</sub>

(*R*)-Ethyl 2-acetoxy-2-((1*S*,5*R*)-5-acetoxycyclopent-2-enyl)propanoate

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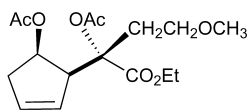
$[\alpha]_D^{23} = -3.2$  (*c* 1.0, CHCl<sub>3</sub>)  
Absolute configuration: (*R*,1*S*,5*R*)

C<sub>16</sub>H<sub>24</sub>O<sub>7</sub>

(*R*)-Ethyl 2-acetoxy-2-((1*S*,5*R*)-5-acetoxycyclopent-2-enyl)-4-methoxybutanoate

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*Tetrahedron: Asymmetry 19 (2008) 1020*



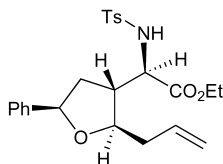
$[\alpha]_D^{23} = -5.5$  (*c* 1.0, CHCl<sub>3</sub>)  
Absolute configuration: (*S*,1*S*,5*R*)

C<sub>10</sub>H<sub>10</sub>O

(*S*)-Ethyl 2-acetoxy-2-((1*S*,5*R*)-5-acetoxycyclopent-2-enyl)-4-methoxybutanoate

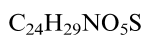
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*Tetrahedron: Asymmetry 19 (2008) 1020*



$$[\alpha]_D^{23} = -11.8 \text{ (} c \text{ 0.9, CHCl}_3\text{)}$$

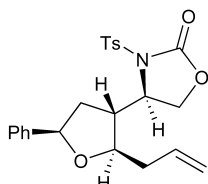
Absolute configuration: (R,2R,3R,5R)



(R)-Ethyl 2-((2R,3R,5R)-2-allyl-5-phenyltetrahydrofuran-3-yl)-2-(4-methylphenylsulfonamido)acetate

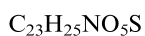
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*Tetrahedron: Asymmetry 19 (2008) 1020*



$$[\alpha]_D^{23} = -32.5 \text{ (} c \text{ 1.6, CHCl}_3\text{)}$$

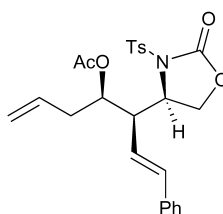
Absolute configuration: (S,2R,3R,5R)



(S)-4-((2R,3R,5R)-2-Allyl-5-phenyltetrahydrofuran-3-yl)-3-tosyloxazolidin-2-one

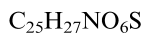
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$$[\alpha]_D^{23} = +41.4 \text{ (} c \text{ 1.05, CHCl}_3\text{)}$$

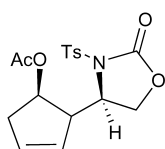
Absolute configuration: (3R,4R)



(3R,4R)-3-(2-Oxo-3-tosyloxazolidin-4-yl)-1-phenylhepta-1,6-diene-4-yl acetate

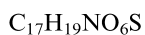
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$$[\alpha]_D^{23} = -87.4 \text{ (} c \text{ 0.85, CHCl}_3\text{)}$$

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



(1R,2R)-2-((R)-2-Oxo-3-tosyloxazolidin-4-yl)cyclopent-3-enyl acetate