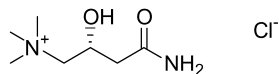


Marco Pallavicini,* Cristiano Bolchi, Matteo Binda, Rossana Ferrara, Laura Fumagalli, Oreste Piccolo, Ermanno Valoti

Tetrahedron: Asymmetry 19 (2008) 1637



$C_7H_{17}N_2O_2Cl$

(*R*)-Carnitinamide chloride

$[\alpha]_D^{20} = -24.5$ (c 1, MeOH)

$[\alpha]_D^{20} = -17.1$ (c 2, H₂O)

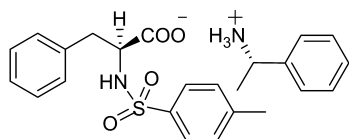
Ee 100%

Source of chirality: resolution of racemate by entrainment

Absolute configuration: (*R*)

Takuji Hirose,* Muksana Begum, Md. Sadequl Islam, Kayoko Taniguchi, Mikio Yasutake

Tetrahedron: Asymmetry 19 (2008) 1641



(*S*)-MBA·(*S*)-TPA

$C_{24}H_{28}N_2O_4S$: 440.54

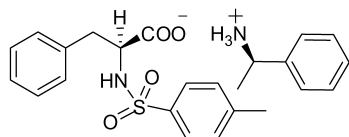
(*S*)-Methylbenzylamine-(*S*)-tosylphenylalanine salt

$[\alpha]_D^{27} = +50.5$ (c 0.107, MeOH)

Absolute configuration: (*S,S*)

Takuji Hirose,* Muksana Begum, Md. Sadequl Islam, Kayoko Taniguchi, Mikio Yasutake

Tetrahedron: Asymmetry 19 (2008) 1641



(*R*)-MBA·(*S*)-TPA

$C_{24}H_{28}N_2O_4S$: 440.54

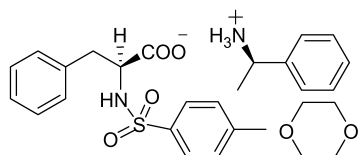
(*R*)-Methylbenzylamine-(*S*)-tosylphenylalanine salt

$[\alpha]_D^{23} = +78.5$ (c 0.107, MeOH)

Absolute configuration: (*R,S*)

Takuji Hirose,* Muksana Begum, Md. Sadequl Islam, Kayoko Taniguchi, Mikio Yasutake

Tetrahedron: Asymmetry 19 (2008) 1641



(*R*)-MBA·(*S*)-TPA·dioxane

$C_{28}H_{36}N_2O_6S$: 528.65

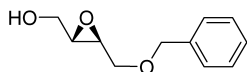
(*R*)-Methylbenzylamine-(*S*)-tosylphenylalanine-dioxane salt

$[\alpha]_D^{23} = +20.7$ (c 1.0, MeOH)

Absolute configuration: (*R,S*)

Liu-Lan Shen, Fang Wang, Han-Seo Mun, Myungkoo Suh, Jin-Hyun Jeong*

Tetrahedron: Asymmetry 19 (2008) 1647



$C_{11}H_{14}O_3$

((2S,3S)-3-(Benzyloxymethyl)oxiran-2-yl)methanol

Ee = 92.3%

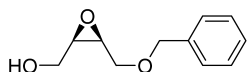
$[\alpha]^{24}_D = +21.65$ (c 0.56, EtOAc)

Source of chirality: enzyme reaction

Absolute configuration: (2S,3S)

Liu-Lan Shen, Fang Wang, Han-Seo Mun, Myungkoo Suh, Jin-Hyun Jeong*

Tetrahedron: Asymmetry 19 (2008) 1647



$C_{11}H_{14}O_3$

((2R,3S)-3-(Benzyloxymethyl)oxiran-2-yl)methanol

Ee = 99.5%

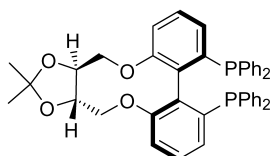
$[\alpha]^{24}_D = +20.5$ (c 0.45, EtOAc)

Source of chirality: enzyme reaction

Absolute configuration: (2R,3S)

Edoardo Cesarotti,* Giorgio Abbiati, Elisabetta Rossi, Paola Spalluto, Isabella Rimoldi

Tetrahedron: Asymmetry 19 (2008) 1654



$C_{43}H_{38}O_4P_2$

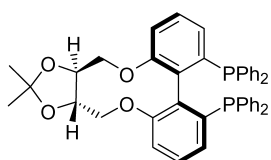
(-)-(S,S,R_{ax})DIOPHEP

$[\alpha]^{25}_D = -45.0$ (c 0.1, CH₂Cl₂)

Absolute configuration: (S,S,R_{ax})

Edoardo Cesarotti,* Giorgio Abbiati, Elisabetta Rossi, Paola Spalluto, Isabella Rimoldi

Tetrahedron: Asymmetry 19 (2008) 1654



$C_{43}H_{38}O_4P_2$

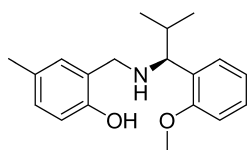
(+)-(S,S,S_{ax})DIOPHEP

$[\alpha]^{25}_D = +54.5$ (c 0.33, CH₂Cl₂)

Absolute configuration: (S,S,S_{ax})

Xiao-Feng Yang, Takuji Hirose*, Guang-You Zhang

Tetrahedron: Asymmetry 19 (2008) 1670



$C_{19}H_{25}NO_2$

2-(((S)-1-(2-Methoxyphenyl)-2-methylpropylamino)methyl)-4-methylphenol

Ee >99%

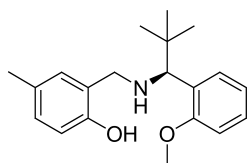
$[\alpha]_D^{23} = -18.6$ (c 0.582, $CHCl_3$)

Source of chirality: (S)-1-(2-methoxyphenyl)-2-methylpropan-1-amine

Absolute configuration: (S)

Xiao-Feng Yang, Takuji Hirose*, Guang-You Zhang

Tetrahedron: Asymmetry 19 (2008) 1670



$C_{20}H_{27}NO_2$

2-(((S)-1-(2-Methoxyphenyl)-2,2-dimethylpropylamino)methyl)-4-methylphenol

Ee >99%

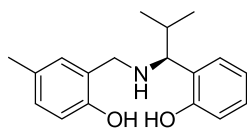
$[\alpha]_D^{23} = +6.6$ (c 0.696, $CHCl_3$)

Source of chirality: (S)-1-(2-methoxyphenyl)-2,2-dimethylpropan-1-amine

Absolute configuration: (S)

Xiao-Feng Yang, Takuji Hirose*, Guang-You Zhang

Tetrahedron: Asymmetry 19 (2008) 1670



$C_{18}H_{23}NO_2$

2-((S)-1-(2-Hydroxy-5-methylbenzylamino)-2-methylpropyl)phenol

Ee >99%

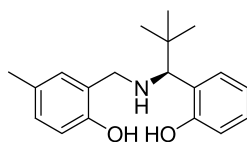
$[\alpha]_D^{23} = -19.0$ (c 0.400, $CHCl_3$)

Source of chirality: (S)-1-(2-methoxyphenyl)-2-methylpropan-1-amine

Absolute configuration: (S)

Xiao-Feng Yang, Takuji Hirose*, Guang-You Zhang

Tetrahedron: Asymmetry 19 (2008) 1670



$C_{19}H_{25}NO_2$

2-((S)-1-(2-Hydroxy-5-methylbenzylamino)-2,2-dimethylpropyl)phenol

Ee >99%

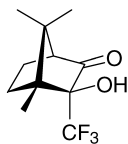
$[\alpha]_D^{23} = -22.5$ (c 0.516, $CHCl_3$)

Source of chirality: (S)-1-(2-methoxyphenyl)-2,2-dimethylpropan-1-amine

Absolute configuration: (S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{11}H_{15}F_3O_2$

(1R,2S)-2-Hydroxy-2-(trifluoromethyl)bornan-3-one

De = 100%

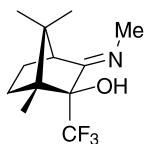
$[\alpha]_D^{20} = -119.2$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{12}H_{18}F_3NO$

(1R,2S)-3-Methylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

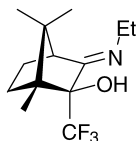
$[\alpha]_D^{20} = -3.7$ (c 0.9, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{13}H_{20}F_3NO$

(1R,2S)-3-Ethylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

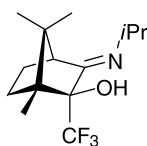
$[\alpha]_D^{20} = +11.4$ (c 1.1, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{14}H_{22}F_3NO$

(1R,2S)-3-iso-Propylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

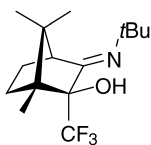
$[\alpha]_D^{20} = +5.4$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{15}H_{24}F_3NO$

(1R,2S)-3-*tert*-Butylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

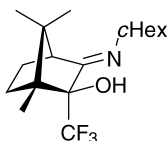
$[\alpha]_D^{20} = +13.0$ (c 1.3, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{17}H_{36}F_3NO$

(1R,2S)-3-Cyclohexylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

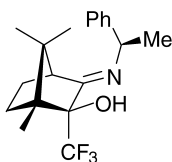
$[\alpha]_D^{20} = -5.45$ (c 0.9, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{19}H_{24}F_3NO$

(1R,2S)-3-[(1*R*)-1'-Phenylethylimino]-2-(trifluoromethyl)-bornane-2-ol

De = 100%

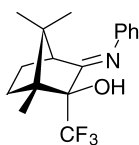
$[\alpha]_D^{20} = +72.6$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{17}H_{20}F_3NO_2$

(1R,2S)-3-Phenylimino-2-(trifluoromethyl)bornane-2-ol

De = 100%

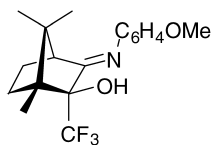
$[\alpha]_D^{20} = +237.9$ (c 0.8, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{18}H_{22}F_3NO_2$

(1R,2S)-3-(4'-Methoxyphenylimino)-2-(trifluoromethyl)-bornane-2-ol

De = 100%

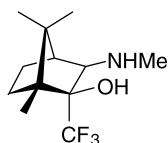
$[\alpha]_D^{20} = +395.4$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

Absolute configuration: (1R,2S)

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{12}H_{20}F_3NO$

(1R,2S,3R)-3-Methylamino-2-(trifluoromethyl)bornane-2-ol

De = 100%

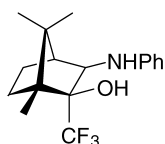
$[\alpha]_D^{20} = -5.5$ (c 0.8, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{17}H_{22}F_3NO$

(1R,2S,3R)-3-Phenylamino-2-(trifluoromethyl)bornane-2-ol

De = 100%

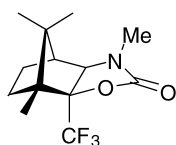
$[\alpha]_D^{20} = +12.0$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Emilia Obijalska, Grzegorz Mlostoń,* Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{13}H_{18}F_3NO_2$

(1R,2S,6R)-1,5,10,10-Tetramethyl-2-(trifluoromethyl)-3-oxa-5-aza-tricyclo[5.2.1.0*2,6*]decan-4-one

Ee = 100%

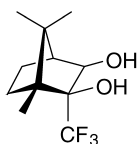
$[\alpha]_D^{20} = -16.5$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Emilia Obijalska, Grzegorz Mloston*, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{11}H_{17}F_3O_2$

(1R,2S,3R)-2-(Trifluoromethyl)bornane-2,3-diol

De = max 91%

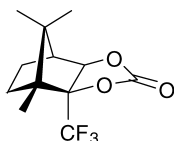
$[\alpha]_D^{20} = -28.93$ (c 1.1, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Emilia Obijalska, Grzegorz Mloston*, Anthony Linden, Heinz Heimgartner*

Tetrahedron: Asymmetry 19 (2008) 1676



$C_{12}H_{15}F_3O_3$

(1R,2S,6R)-1,10,10-Trimethyl-2-(trifluoromethyl)-3,5-dioxatricyclo[5.2.1.0*2,6*]decan-4-one

De = 100%

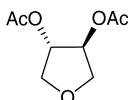
$[\alpha]_D^{20} = -8.6$ (c 1.0, $CHCl_3$)

Source of chirality: enantiomerically pure substrate

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

Verónica Recuero, Rosario Brieva, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1684



$C_8H_{12}O_5$

(+)-3,4-Diacetoxytetrahydrofuran

Ee = >99%

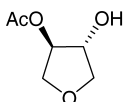
$[\alpha]_D^{20} = +20.4$ (c 0.05, $CHCl_3$)

Source of chirality: lipase-catalyzed hydrolysis

Absolute configuration: (3S,4S)

Verónica Recuero, Rosario Brieva, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1684



$C_6H_{10}O_4$

(-)-3-Acetoxy-4-hydroxytetrahydrofuran

Ee = 99%

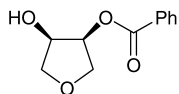
$[\alpha]_D^{20} = -6.0$ (c 0.02, $CHCl_3$)

Source of chirality: lipase-catalyzed hydrolysis

Absolute configuration: (3R,4R)

Verónica Recuero, Rosario Brieva, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1684



$C_{11}H_{12}O_4$

(-)-3-Benzoyloxy-4-hydroxytetrahydrofuran

Ee = 83%

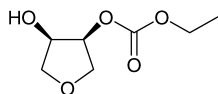
$[\alpha]_D^{20} = -12$ (c 0.03, $CHCl_3$)

Source of chirality: lipase-catalyzed acylation

Absolute configuration: (3S,4R)

Verónica Recuero, Rosario Brieva, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1684



$C_7H_{12}O_5$

(-)-3-Ethoxycarbonyloxy-4-hydroxytetrahydrofuran

Ee = 78%

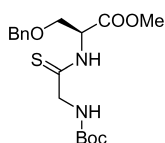
$[\alpha]_D^{20} = -4.6$ (c 0.25, $CHCl_3$)

Source of chirality: lipase-catalyzed alcoxycarbonylation

Absolute configuration: (3S,4R)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



$C_{18}H_{26}N_2O_5S$

Methyl (2S)-6-tert-butoxycarbonyl-2-benzyloxymethyl-3,6-diaza-4-thioxohexanoate

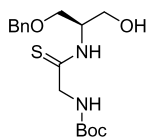
$[\alpha]_D^{28} = +32$ (c 0.3, EtOH)

Source of chirality: O-benzyl-L-serine

Absolute configuration: (S)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



$C_{18}H_{26}N_2O_4S$

(2R)-6-tert-butoxycarbonyl-2-benzyloxymethyl-1-hydroxy-3,6-diaza-4-thione

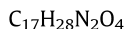
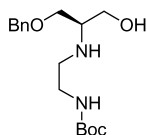
$[\alpha]_D^{28} = +27$ (c 0.4, EtOH)

Source of chirality: O-benzyl-L-serine

Absolute configuration: (R)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(2*R*)-6-*tert*-Butoxycarbonyl-2-benzyloxymethyl-1-hydroxy-3,6-diazahexane

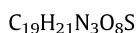
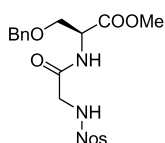
$[\alpha]_D^{28} = +5$ (c 0.4, EtOH)

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (*R*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (2*S*)-6-(4-nitrobenzenesulfonyl)-2-(benzyloxymethyl)-3,6-diaza-4-oxohexanoate

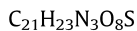
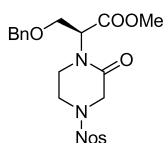
$[\alpha]_D^{24} = +7$ (c 0.1, EtOH)

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (*S*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (2*S*)-3-benzyloxy-2-[4'-(4-nitrobenzenesulfonyl)-2'-oxopiperazin-1'-yl]propanoate

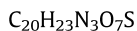
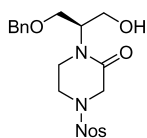
$[\alpha]_D^{28} = -4$ (c 0.4, EtOH)

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (*S*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(1*R*)-4-(4-Nitrobenzenesulfonyl)-1-[1'-benzyloxymethyl-2'-hydroxyethyl]-2-oxopiperazine

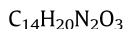
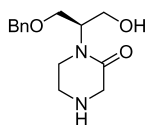
$[\alpha]_D^{28} = +6$ (c 0.1, EtOH)

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (*R*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689

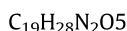
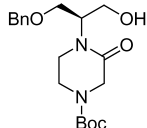


(1'R)-1-[1'-Benzyloxymethyl-2'-hydroxyethyl]-2-oxopiperazine

$[\alpha]_D^{20} = +25$ (c 0.05, EtOH)
Source of chirality: *O*-benzyl-L-serine
Absolute configuration: (*R*)

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Tetrahedron: Asymmetry 19 (2008) 1689

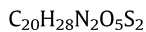
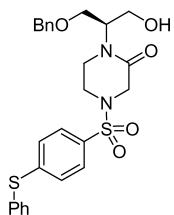


(1'R)-4-(*tert*-Butoxycarbonyl)-1-[1'-benzyloxymethyl-2'-hydroxyethyl]-2-oxopiperazine

$[\alpha]_D^{24} = +7$ (c 0.1, EtOH)
Source of chirality: *O*-benzyl-L-serine or
O-benzyl-D-serine
Absolute configuration: (*R*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689

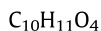
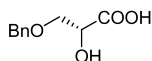


(1'R)-4-(4-Thiophenylbenzenesulfonyl)-1-[1'-benzyloxymethyl-2'-hydroxyethyl]-2-oxopiperazine

$[\alpha]_D^{23} = -26$ (c 0.01, EtOH)
Source of chirality: *O*-benzyl-L-serine
Absolute configuration: (*R*)

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Tetrahedron: Asymmetry 19 (2008) 1689

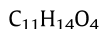
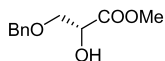


(2*R*)-3-Benzyloxy-2-hydroxypropanoic acid

$[\alpha]_D^{22} = -2$ (c 0.5, EtOH)
Source of chirality: *O*-benzyl-D-serine
Absolute configuration: (*R*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (3*R*)-3-benzyloxy-2-hydroxypropanoate

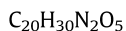
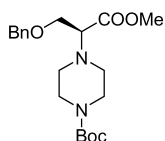
$$[\alpha]_D^{23} = -6 \text{ (c 0.5, EtOH)}$$

Source of chirality: *O*-benzyl-D-serine

Absolute configuration: (*R*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (2*S*)-3-benzyloxy-2-[4'-(*tert*-butoxycarbonyl)-1'-piperazinyl]propanoate

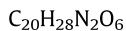
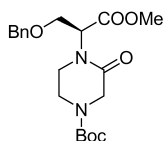
$$[\alpha]_D^{23} = -16 \text{ (c 0.5, EtOH)}$$

Source of chirality: *O*-benzyl-D-serine

Absolute configuration: (*S*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(2*S*)-3-Benzyloxy-2-[4'-(*tert*-butoxycarbonyl)-2'-oxopiperazin-1'-yl] propanoate

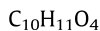
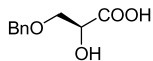
$$[\alpha]_D^{23} = -12 \text{ (c 0.3, EtOH)}$$

Source of chirality: *O*-benzyl-D-serine

Absolute configuration: (*S*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(2*S*)-3-Benzyloxy-2-hydroxypropanoic acid

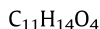
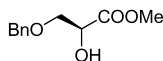
$$[\alpha]_D^{22} = +2 \text{ (c 0.5, EtOH)}$$

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (*S*)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (3S)-3-benzyloxy-2-hydroxypropanoate

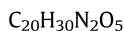
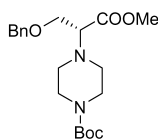
$$[\alpha]_{\text{D}}^{22} = +6 \text{ (c 0.5, EtOH)}$$

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (S)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (2R)-3-benzyloxy-2-[4'-(*tert*-butoxycarbonyl)-1'-piperazinyl]propanoate

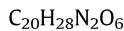
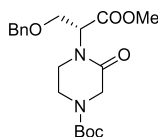
$$[\alpha]_{\text{D}}^{23} = +16 \text{ (c 0.5, EtOH)}$$

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (R)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



Methyl (2R)-3-benzyloxy-2-[4'-(*tert*-butoxycarbonyl)-2'-oxopiperazin-1'-yl]propanoate

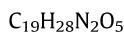
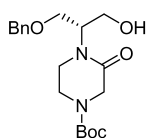
$$[\alpha]_{\text{D}}^{23} = +12 \text{ (c 0.3, EtOH)}$$

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (R)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(1'S)-4-(*tert*-Butoxycarbonyl)-1-[1'-benzyloxymethyl-2'-hydroxyethyl]-2-oxopiperazine

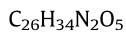
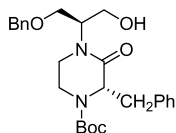
$$[\alpha]_{\text{D}}^{24} = -7 \text{ (c 0.1, EtOH)}$$

Source of chirality: *O*-benzyl-L-serine

Absolute configuration: (S)

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(1*R*,3*S*)-4-(*tert*-Butoxycarbonyl)-1-[1'-hydroxymethyl-2'-hydroxyethyl]-3-benzyl-2-oxopiperazine

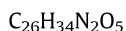
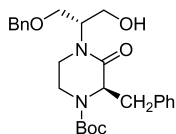
$[\alpha]_D^{18} = +16$ (c 0.1, EtOH)

Source of chirality: *O*-benzyl-D-serine

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

Claiton Leoneti Lencina, Alexandra Dassonville-Klimpt, Pascal Sonnet*

Tetrahedron: Asymmetry 19 (2008) 1689



(1*S*,3*R*)-4-(*tert*-Butoxycarbonyl)-1-[1'-hydroxymethyl-2'-hydroxyethyl]-3-benzyl-2-oxopiperazine

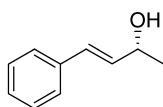
$[\alpha]_D^{18} = -16$ (c 0.1, EtOH)

Source of chirality: *O*-benzyl-L-serine

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

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



(2*R*,3*E*)-4-Phenylbut-3-en-2-ol

Ee >99%

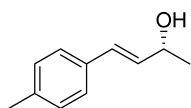
$[\alpha]_D^{25} = +33.2$ (c 1.02, CHCl₃)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



(2*R*,3*E*)-4-*p*-Tolylbut-3-en-2-ol

Ee = 98%

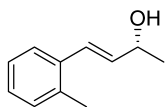
$[\alpha]_D^{25} = +20.9$ (c 0.8, CHCl₃)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{11}H_{14}O$

(2*R*,3*E*)-4-*o*-Tolylbut-3-en-2-ol

Ee = 95%

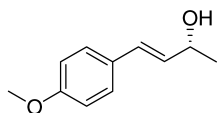
$[\alpha]_D^{25} = +15.4$ (c 1.1, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{11}H_{14}O_2$

(2*R*,3*E*)-4-(*p*-Methoxyphenyl)but-3-en-2-ol

Ee >99%

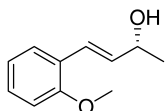
$[\alpha]_D^{25} = +9.4$ (c 1.1, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{11}H_{11}O_2$

(2*R*,3*E*)-4-(*o*-Methoxyphenyl)but-3-en-2-ol

Ee = 94%

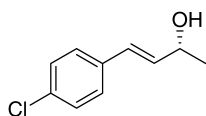
$[\alpha]_D^{25} = +6.4$ (c 1.02, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{10}H_{11}ClO$

(2*R*,3*E*)-4-(*p*-Chlorophenyl)but-3-en-2-ol

Ee >99%

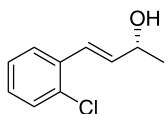
$[\alpha]_D^{25} = +28.1$ (c 1.02, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{10}H_{11}ClO$

(2*R*,3*E*)-4-(*o*-Chlorophenyl)but-3-en-2ol

Ee = 92%

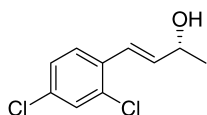
$[\alpha]_D^{25} = +8.3$ (c 0.70, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{10}H_{10}Cl_2O$

(2*R*,3*E*)-4-(*o,p*-Dichlorophenyl)but-3-en-2ol

Ee = 90%

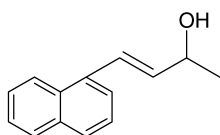
$[\alpha]_D^{25} = +4.6$ (c 0.50, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Devamani Titu, Anju Chadha*

Tetrahedron: Asymmetry 19 (2008) 1698



$C_{14}H_{14}O$

(2*R*,3*E*)-4-(Naphthalen-1-yl)but-3-en-2ol

Ee = 76%

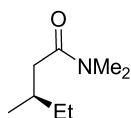
$[\alpha]_D^{25} = +7.2$ (c 2.0, $CHCl_3$)

Source of chirality: deracemisation

Absolute configuration: (*R*)

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_8H_{17}NO$

(*R*)-*N,N*-Dimethyl-3-methyl-pentanamide

Ee = 64%

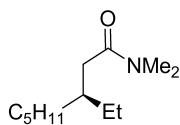
$[\alpha]_D = -5.6$ (c 1.5, $CHCl_3$)

Source of chirality: asymmetric catalysis

Absolute configuration: (*R*)

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{12}H_{25}NO$

(*S*)-*N,N*-Dimethyl-3-ethyl-octanamide

Ee = 68%

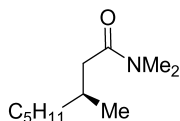
$[\alpha]_D = +1.1$ (c 1.1, $CHCl_3$)

Source of chirality: asymmetric catalysis

Absolute configuration: (*S*)

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{12}H_{25}NO$

(*S*)-*N,N*-Dimethyl-3-methyl-octanamide

Ee = 74%

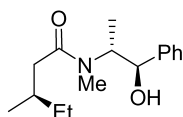
$[\alpha]_D = +1.0$ (c 0.9, $CHCl_3$)

Source of chirality: asymmetric catalysis

Absolute configuration: (*S*)

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{16}H_{25}NO_2$

(*3R,1'R,2'R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-3-methylpentanamide

De = 84%, rest (*3S*)-epimer

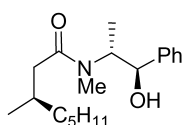
$[\alpha]_D = -101$ (c 1.26, $CHCl_3$)

Source of chirality: diastereoselective addition using (*R,R*)-(-)-pseudoephedrine

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

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{19}H_{31}NO_2$

(*3R,1'R,2'R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-3-methyloctanamide

De = 76%, rest (*3S*)-epimer

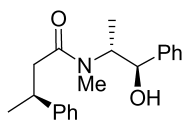
$[\alpha]_D = -88$ (c 1.13, $CHCl_3$)

Source of chirality: diastereoselective addition using (*R,R*)-(-)-pseudoephedrine

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

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{20}H_{25}NO_2$

(3*R*,1'*R*,2'*R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-3-phenylbutanamide

De = 89%, rest (3*S*)-epimer

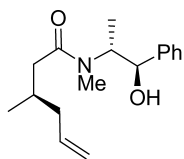
$[\alpha]_D = -77$ (c 1.25, $CHCl_3$)

Source of chirality: diastereoselective addition using (R,R)-(-)-pseudoephedrine

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

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{17}H_{25}NO_2$

(3*R*,1'*R*,2'*R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-3-methylhex-5-enamide

De = 76%, rest (3*S*)-epimer

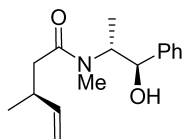
$[\alpha]_D = -94$ (c 0.84, $CHCl_3$)

Source of chirality: diastereoselective addition using (R,R)-(-)-pseudoephedrine

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

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{16}H_{23}NO_2$

(3*R*,1'*R*,2'*R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-3-methylpent-4-enamide

De = 57%, rest (3*S*)-epimer

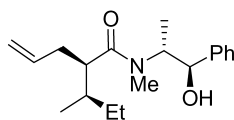
$[\alpha]_D = -93$ (c 1.05, $CHCl_3$)

Source of chirality: diastereoselective addition using (R,R)-(-)-pseudoephedrine

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

Kallolmay Biswas, Simon Woodward*

Tetrahedron: Asymmetry 19 (2008) 1702



$C_{20}H_{29}NO_2$

(2*R*,3*R*,1'*R*,2'*R*)-*N*-Methyl-*N*-(2'-phenyl-2'-hydroxy-1'-methylethyl)-2-allyl-3-methylpentanamide

De = 92%, rest (2*R*,3*S*)-enantiomer

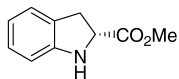
$[\alpha]_D = -73$ (c 1.05, $CHCl_3$)

Source of chirality: diastereoselective addition using (R,R)-(-)-pseudoephedrine, followed by alkylation

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

Sergio Alatorre-Santamaría, María Rodríguez-Mata, Vicente Gotor-Fernández, Marcos Carlos de Mattos, Francisco J. Sayago, Ana I. Jiménez, Carlos Cativiela*, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1714



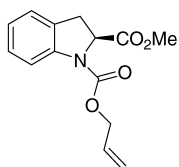
$C_{10}H_{11}NO_2$

(*R*)-(-)-Methyl indoline-2-carboxylate

Ee >99% (HPLC, Chiralcel OD)
 $[\alpha]_D^{20} = -47.3$ (c 0.28, CH_2Cl_2)
 Source of chirality: enzymatic kinetic resolution
 Absolute configuration: (*R*)

Sergio Alatorre-Santamaría, María Rodríguez-Mata, Vicente Gotor-Fernández, Marcos Carlos de Mattos, Francisco J. Sayago, Ana I. Jiménez, Carlos Cativiela*, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1714



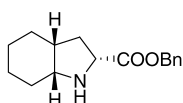
$C_{14}H_{15}NO_4$

(*S*)-(-)-Methyl *N*-(allyloxycarbonyl)indoline-2-carboxylate

Ee >99% (HPLC, Chiralcel OD)
 $[\alpha]_D^{20} = -106.5$ (c 1.2, CH_2Cl_2)
 Source of chirality: enzymatic kinetic resolution
 Absolute configuration: (*S*)

Sergio Alatorre-Santamaría, María Rodríguez-Mata, Vicente Gotor-Fernández, Marcos Carlos de Mattos, Francisco J. Sayago, Ana I. Jiménez, Carlos Cativiela*, Vicente Gotor*

Tetrahedron: Asymmetry 19 (2008) 1714



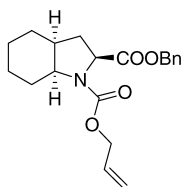
$C_{16}H_{21}NO_2$

(2*R*,3*aR*,7*aR*)-(+)-Benzyl octahydroindole-2-carboxylate

Ee >99% (HPLC, Chiralcel OD)
 $[\alpha]_D^{20} = +23.1$ (c 1.0, $CHCl_3$)
 Source of chirality: enzymatic kinetic resolution
 Absolute configuration: (2*R*,3*aR*,7*aR*)

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Tetrahedron: Asymmetry 19 (2008) 1714



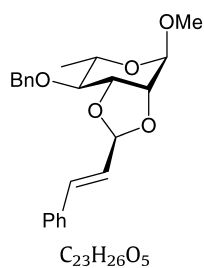
$C_{20}H_{25}NO_4$

(2*S*,3*aS*,7*aS*)-(-)-Benzyl *N*-(allyloxycarbonyl)octahydroindole-2-carboxylate

Ee 98% (HPLC, Chiralcel OD)
 $[\alpha]_D^{20} = -42.8$ (c 1.0, $CHCl_3$)
 Source of chirality: enzymatic kinetic resolution
 Absolute configuration: (2*S*,3*aS*,7*aS*)

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(*S,E*)-3-phenyl-2-propenylidene]- α -L-rhamnopyranoside

Ee = 100%

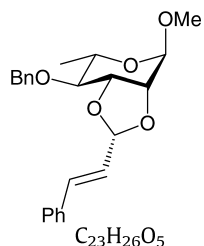
$[\alpha]_D^{25} = -63.2$ (c 1.2, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(*S,E*)-, α -L-rhamno

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(*R,E*)-3-phenyl-2-propenylidene]- α -L-rhamnopyranoside

Ee = 100%

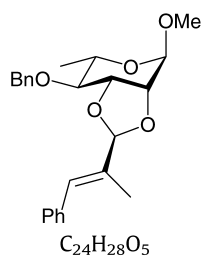
$[\alpha]_D^{25} = -36.0$ (c 0.7, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(*R,E*)-, α -L-rhamno

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(*S,E*)-2-methyl-3-phenyl-2-propenylidene]- α -L-rhamnopyranoside

Ee = 100%

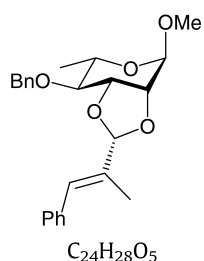
$[\alpha]_D^{25} = -43.8$ (c 1.2, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(*S,E*)-, α -L-rhamno

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(*R,E*)-2-methyl-3-phenyl-2-propenylidene]- α -L-rhamnopyranoside

Ee = 100%

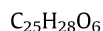
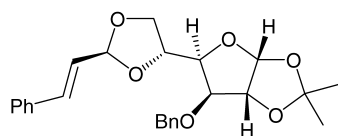
$[\alpha]_D^{25} = -6.0$ (c 0.6, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(*R,E*)-, α -L-rhamno

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



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

Ee = 100%

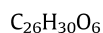
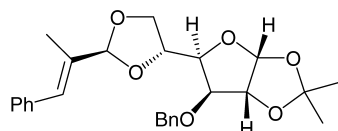
$[\alpha]_D^{25} = -4.7$ (c 0.8, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 5,6-O-(*S,E*)-, α -D-glucofuranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



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

Ee = 100%

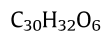
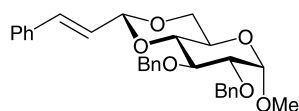
$[\alpha]_D^{25} = -10.7$ (c 0.8, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 5,6-O-(*S,E*)-, α -D-glucofuranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



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

Ee = 100%

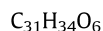
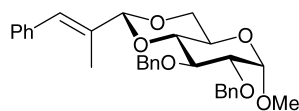
$[\alpha]_D^{25} = +6.8$ (c 0.9, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(*R,E*)-, α -D-glucopyranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



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

Ee = 100%

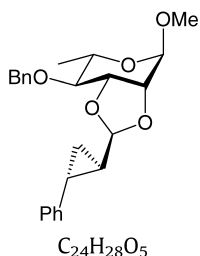
$[\alpha]_D^{25} = +29.2$ (c 1.1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(*R,E*)-, α -D-glucopyranose

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Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(1S,2R,3R)-(2-phenylcyclopropyl)methylidene]-α-L-rhamnopyranoside

De = 26%

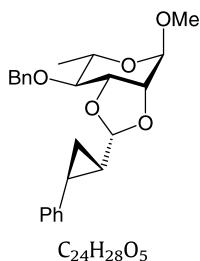
$[\alpha]_D^{25} = -17.8$ (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(1S,2R,3R)-, α-L-rhamno

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Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4-O-benzyl-2,3-O-[(1R,2S,3S)-(2-phenylcyclopropyl)methylidene]-α-L-rhamnopyranoside

De = 57%

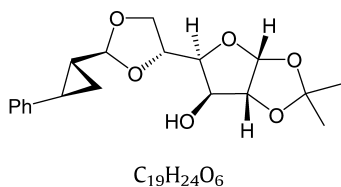
$[\alpha]_D^{25} = -15.3$ (c 1.2, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 2,3-O-(1R,2S,3S)-, α-L-rhamno

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Tetrahedron: Asymmetry 19 (2008) 1720



1,2-O-isopropylidene-5,6-O-[(1S,2R,3R)-(2-phenylcyclopropyl)methylidene]-α-D-glucofuranose

De = 49%

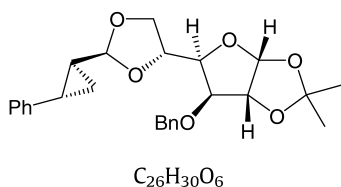
$[\alpha]_D^{25} = -6.3$ (c 1.1, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 5,6-O-(1S,2R,3R)-, α-D-glucofuranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



3-O-Benzyl-1,2-O-isopropylidene-5,6-O-[(1S,2S,3S)-(2-phenylcyclopropyl)methylidene]-α-D-glucofuranose

De = 4.8%

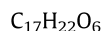
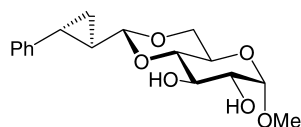
$[\alpha]_D^{25} = +12.9$ (c 1.2, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 5,6-O-(1S,2S,3S)-, α-D-glucofuranose

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Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4,6-O-[(1R,2R,3R)-(2-phenylcyclopropyl)methylidene]- α -D-glucopyranoside

De = 20%

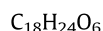
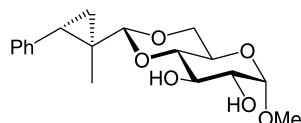
$[\alpha]_D^{25} = +82.8$ (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(1R,2R,3R)-, α -D-glucopyranose

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Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 4,6-O-[(1R,2R,3S)-(1-methyl-2-phenylcyclopropyl)methylidene]- α -D-glucopyranoside

De = 4.8%

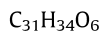
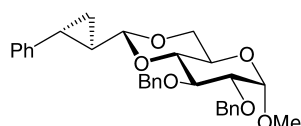
$[\alpha]_D^{25} = +94.0$ (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(1R,2R,3S)-, α -D-glucopyranose

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Methyl 2,3-di-O-benzyl-4,6-O-[(1R,2R,3R)-(2-phenylcyclopropyl)methylidene]- α -D-glucopyranoside

De = 33%

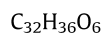
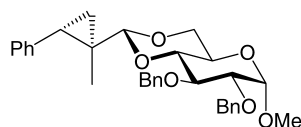
$[\alpha]_D^{25} = +79.9$ (c 0.8, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(1R,2R,3R)-, α -D-glucopyranose

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Tetrahedron: Asymmetry 19 (2008) 1720



Methyl 2,3-dibenzyl-4,6-O-[(1R,2R,3S)-(1-methyl-2-phenylcyclopropyl)methylidene]- α -D-glucopyranoside

De = 4.8%

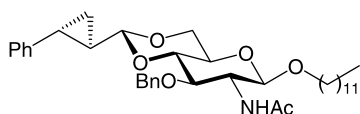
$[\alpha]_D^{25} = +31.4$ (c 0.9, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(1R,2R,3S)-, α -D-glucopyranose

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Tetrahedron: Asymmetry 19 (2008) 1720



$C_{37}H_{53}NO_6$

1-Dodecyl 2-acetamido-3-O-benzyl-2-deoxy-4,6-O-[(1R,2R,3R)-(2-phenylcyclopropyl)methylidene]-β-D-glucopyranoside

De = 46%

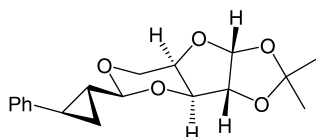
$[\alpha]_D^{25} = +4.0$ (c 4.6, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 4,6-O-(1R,2R,3R)-, α-D-glucopyranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



$C_{18}H_{22}O_5$

1,2-O-Isopropylidene-3,5-O-[(1S,2R,3R)-(2-phenylcyclopropyl)methylidene]-α-D-xylofuranose

De = 80%

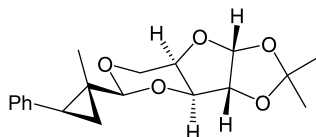
$[\alpha]_D^{25} = -60.4$ (c 1.0, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 3,5-O-(1S,2R,3R)-, α-D-xylofuranose

José M. Vega-Pérez,* Ignacio Periñán, Margarita Vega, Fernando Iglesias-Guerra*

Tetrahedron: Asymmetry 19 (2008) 1720



$C_{19}H_{24}O_5$

1,2-O-Isopropylidene-3,5-O-[(1S,2R,3S)-(1-methyl-2-phenylcyclopropyl)methylidene]-α-D-xylofuranose

De = 50%

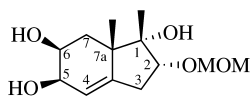
$[\alpha]_D^{25} = -12.9$ (c 0.9, CH_2Cl_2)

Source of chirality: asymmetric synthesis

Absolute configuration: 3,5-O-(1S,2R,3S)-, α-D-xylofuranose

Andrei Corbu, Guillaume Gauron, Juan M. Castro, Mohamed Dakir, Siméon Arseniyadis*

Tetrahedron: Asymmetry 19 (2008) 1730



$C_{13}H_{22}O_5$

(1S,2R,5R,6S,7aS)-2-(Methoxymethoxy)-1,7a-dimethyl-2,3,5,6,7a-hexahydro-1H-indene-1,5,6-triol

Ee = >97%

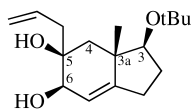
$[\alpha]_D^{20} = +18$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (1S,2R,5R,6S,7aS)

Andrei Corbu, Guillaume Gauron, Juan M. Castro, Mohamed Dakir,
Siméon Arseniyadis*

Tetrahedron: Asymmetry 19 (2008) 1730



$C_{17}H_{28}O_3$

(3S,3aS,5S,6R)-5-Allyl-3-tert-butoxy-3a-methyl-2,3,3a,4,5,6-hexahydro-1H-indene-5,6-diol

Ee = >97%

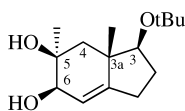
$[\alpha]_D^{20} = -7$ (c 0.25, $CHCl_3$)

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

Absolute configuration: (3S,3aS,5S,6R)

Andrei Corbu, Guillaume Gauron, Juan M. Castro, Mohamed Dakir,
Siméon Arseniyadis*

Tetrahedron: Asymmetry 19 (2008) 1730



$C_{15}H_{26}O_3$

(3S,3aS,5S,6R)-3-tert-butoxy-3a,5-dimethyl-2,3,3a,4,5,6-hexahydro-1H-indene-5,6-diol

Ee = >97%

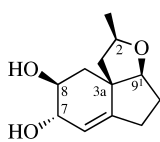
$[\alpha]_D^{20} = -11$ (c 0.7, $CHCl_3$)

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

Absolute configuration: (3S,3aS,5S,6R)

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$C_{12}H_{18}O_3$

(2R,3aS,7S,8S,9¹R)-2-Methyl-1,2,3a,4,5,7,8,9-octahydroindeno[1-b]furan-7,8-diol

Ee = 81%

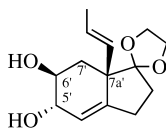
$[\alpha]_D^{20} = +34$ (c 0.5, $CHCl_3$)

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

Absolute configuration: (2R,3aS,7S,8S,9¹R)

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$C_{14}H_{20}O_4$

(5'S,6'S,7a'R)-7a'-((E)-Prop-1-enyl)-2',3',5',6',7',7a'-hexahydrospiro[[1,3]dioxolane-2,1'-indene]-5',6'-diol

Ee = 81%

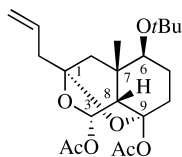
$[\alpha]_D^{20} = 61$ (c 1.8, $CHCl_3$)

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

Absolute configuration: (5'S,6'S,7a'R)

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$C_{21}H_{32}O_7$

Acetic acid 3-acetoxy-1-allyl-6-tert-butoxy-7-methyl-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

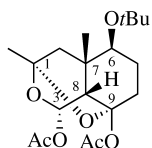
$[\alpha]_D^{20} = -28$ (c 0.5, CHCl₃)

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

Absolute configuration: (1R,3S,6S,7S,8S,9R)

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$C_{19}H_{30}O_7$

Acetic acid 3-acetoxy-6-tert-butoxy-1,7-dimethyl-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

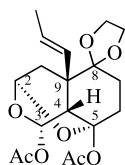
$[\alpha]_D^{20} = -34$ (c 0.9, CHCl₃)

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

Absolute configuration: (1R,3S,6S,7S,8S,9R)

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$C_{18}H_{24}O_8$

Acetic acid 3-acetoxy-6-(prop-1-enyl)-2,10-dioxo-spiro[[1,3]dioxolane-2',6'-tricyclo[5.3.1.0^{0,0}]undec]-9-yl ester

Ee = 81%

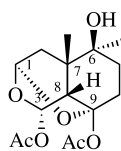
$[\alpha]_D^{20} = -28$ (c 1.4, CHCl₃)

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

Absolute configuration: (2R,3S,4S,5R,9S)

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$C_{15}H_{22}O_7$

Acetic acid 3-acetoxy-6-hydroxy-6,7-dimethyl-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

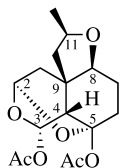
$[\alpha]_D^{20} = -44$ (c 1.0, CHCl₃)

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

Absolute configuration: (1R,3S,6S,7S,8S,9R)

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$C_{16}H_{22}O_7$

Acetic acid 3-acetoxy-6,7-(1'-methylepoxyethano)-2,10-dioxa-tricyclo[5.3.1.0^{0.0}]undec-9-yl ester

Ee = 81%

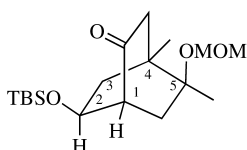
$[\alpha]_D^{20} = -29$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (2R,3S,4S,5R,8S,9S)

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$C_{18}H_{34}O_4Si$

(1R,2S,4S,5S)-2-(tert-Butyldimethylsilyloxy)-5-(methoxymethoxy)-4,5-dimethylbicyclo[2.2.2]octan-7-one

Ee = >97%

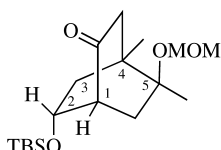
$[\alpha]_D^{20} = +2$ (c 1.4, $CHCl_3$)

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

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

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$C_{18}H_{34}O_4Si$

(1R,2R,4S,5S)-2-(tert-Butyldimethylsilyloxy)-5-(methoxymethoxy)-4,5-dimethylbicyclo[2.2.2]octan-7-one

Ee = >97%

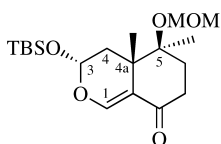
$[\alpha]_D^{20} = +5$ (c 1.4, $CHCl_3$)

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

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

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$C_{19}H_{34}O_5Si$

(3R,4aS,5S)-3-(tert-Butyldimethylsilyloxy)-5-(methoxymethoxy)-4a,5-dimethyl-4a,5,6,7-tetrahydro-3H-isochromen-8(4H)-one

Ee = >97%

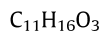
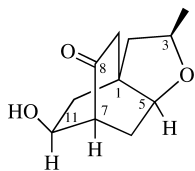
$[\alpha]_D^{20} = +57$ (c 2.0, $CHCl_3$)

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

Absolute configuration: (3R,4aS,5S)

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11-Hydroxy-3-methyl-4-oxa-tricyclo[5.2.2.0^{0,0}]undecan-8-one

Ee = 81%

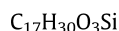
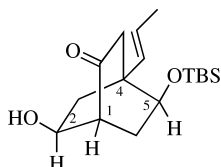
$[\alpha]_D^{20} = +26$ (c 0.8, CHCl₃)

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

Absolute configuration: (1S,3R,5S,7R,11R)

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(1R,2S,4S,5S)-5-(*tert*-Butyldimethylsilyloxy)-2-hydroxy-4-((*E*)-prop-1-enyl)bicyclo[2.2.2]octan-7-one

Ee = 81%

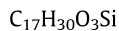
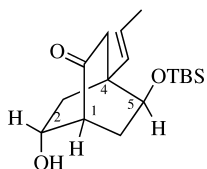
$[\alpha]_D^{20} = +24$ (c 1.0, CHCl₃)

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

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

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(1R,2R,4S,5S)-5-(*tert*-Butyldimethylsilyloxy)-2-hydroxy-4-((*E*)-prop-1-enyl)bicyclo[2.2.2]octan-7-one

Ee = 81%

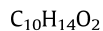
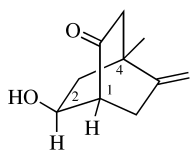
$[\alpha]_D^{20} = +38$ (c 1.8, CHCl₃)

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

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

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(1R,2R,4S)-2-Hydroxy-4-methyl-5-methylenebicyclo[2.2.2]octan-7-one

Ee = >97%

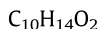
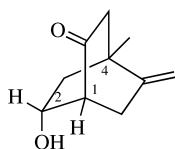
$[\alpha]_D^{20} = +19$ (c 0.8, CHCl₃)

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

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

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(1R,2S,4S)-2-Hydroxy-4-methyl-5-methylenebicyclo[2.2.2]octan-7-one

Ee = >97%

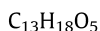
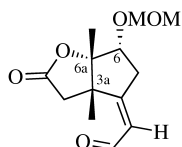
$[\alpha]_D^{20} = +10$ (c 0.5, $CHCl_3$)

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

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

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(Z)-2-((3aS,6R,6aS)-6-(Methoxymethoxy)-3a,6a-dimethyl-2-oxodihydro-2H-cyclopenta[b]furan-4(5H,6H,6aH)-ylidene)acetaldehyde

Ee = >97%

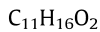
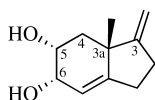
$[\alpha]_D^{20} = -101$ (c 0.5, $CHCl_3$)

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

Absolute configuration: (3aS,6R,6aS)

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(3aR,5R,6S)-3a-Methyl-3-methylene-2,3,3a,4,5,6-hexahydro-1H-indene-5,6-diol

Ee = >97%

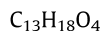
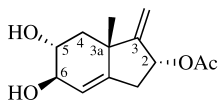
$[\alpha]_D^{20} = +22$ (c 1.3, $CHCl_3$)

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

Absolute configuration: (3aR,5R,6S)

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(2R,3aS,5R,6R)-5,6-Dihydroxy-3a-methyl-3-methylene-2,3,3a,4,5,6-hexahydro-1H-inden-2-yl acetate

Ee = >97%

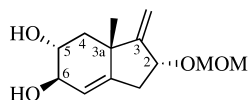
$[\alpha]_D^{20} = -34$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (2R,3aS,5R,6R)

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$C_{13}H_{20}O_4$

(2*R*,3*aS*,5*R*,6*R*)-2-(Methoxymethoxy)-3*a*-methyl-3-methylene-2,3,3*a*,4,5,6-hexahydro-1*H*-indene-5,6-diol

Ee = >97%

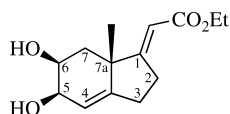
$[\alpha]_D^{20} = -36$ (c 1.1, $CHCl_3$)

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

Absolute configuration: (2*R*,3*aS*,5*R*,6*R*)

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$C_{14}H_{20}O_4$

(*E*)-Ethyl 2-((5*R*,6*S*,7*aS*)-5,6-dihydroxy-7*a*-methyl-2,3,5,6,7,7*a*-hexahydro-1*H*-inden-1-ylidene)acetate

Ee = >97%

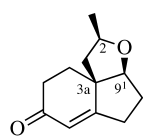
$[\alpha]_D^{20} = -8$ (c 1.2, $CHCl_3$)

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

Absolute configuration: (5*R*,6*S*,7*aS*)

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$C_{12}H_{16}O_2$

(2*R*,3*aS*,9¹*R*)-2-Methyl-1,2,4,5,8,9-hexahydroindeno[1-*b*]furan-7(3*aH*)-one

Ee = 81%

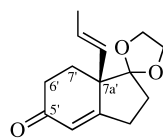
$[\alpha]_D^{20} = +163$ (c 1.8, $CHCl_3$)

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

Absolute configuration: (2*R*,3*aS*,9¹*R*)

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$C_{14}H_{18}O_3$

(*R,E*)-7*a'*-(Prop-1-enyl)-2',3',7',7*a'*-tetrahydrospiro[[1,3]dioxolane-2,1'-inden]-5'(6'*H*)-one

Ee = 81%

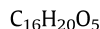
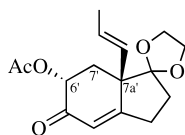
$[\alpha]_D^{20} = +27$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (7*a'**R*)

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(6'R,7a'R)-5'-Oxo-7a'-((E)-prop-1-enyl)-2',3',5',6',7',7a'-hexahydrospiro[[1,3]dioxolane-2,1'-indene]-6'-yl acetate

Ee = 81%

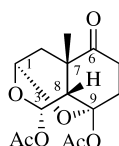
$[\alpha]_D^{20} = +59$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (6'R), (7a'R)

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Acetic acid 3-acetoxy-7-methyl-6-oxo-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

$[\alpha]_D^{20} = +2$ (c 0.6, $CHCl_3$)

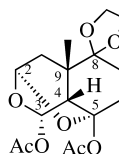
Mp: 110–120 °C

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

Absolute configuration: (1R,3S,7S,8S,9R)

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Acetic acid 3-acetoxy-7-methyl-2,10-dioxo-spiro[[1,3]dioxolane-2',6'-tricyclo[5.3.1.0^{0,0}]undec]-9-yl ester

Ee = >97%

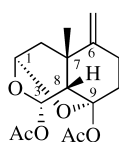
$[\alpha]_D^{20} = -40$ (c 1.0, $CHCl_3$)

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

Absolute configuration: (2R,3S,4S,5R,9S)

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Acetic acid 3-acetoxy-7-methyl-6-methylene-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

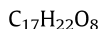
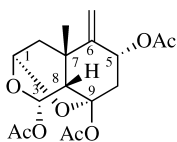
$[\alpha]_D^{20} = -28$ (c 1.5, $CHCl_3$)

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

Absolute configuration: (1R,3S,7S,8S,9R)

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Acetic acid 3,5-diacetoxy-7-methyl-6-methylene-2,10-dioxatricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

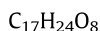
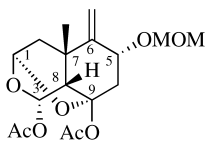
$[\alpha]_D^{20} = -9$ (c 1.0, CHCl₃)

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

Absolute configuration: (1R,3S,5R,7S,8S,9R)

Andrei Corbu, Guillaume Gauron, Juan M. Castro, Mohamed Dakir, Siméon Arseniyadis*

Tetrahedron: Asymmetry 19 (2008) 1730



Acetic acid 3-acetoxy-5-methoxymethoxy-7-methyl-6-methylene-2,10-dioxatricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

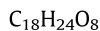
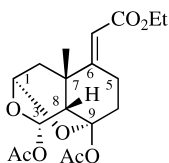
$[\alpha]_D^{20} = +14$ (c 0.5, CHCl₃)

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

Absolute configuration: (1R,3S,5R,7S,8S,9R)

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(3,9-Diacetoxy-7-methyl-2,10-dioxatricyclo[5.3.1.0^{0,0}]undec-6-ylidene)-acetic acid ethyl ester

Ee = >97%

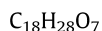
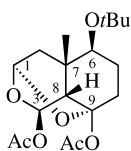
$[\alpha]_D^{20} = +36$ (c 0.7, CHCl₃)

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

Absolute configuration: (1R,3S,7S,8S,9R)

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Acetic acid 3-acetoxy-6-tert-butoxy-7-methyl-2,10-dioxatricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

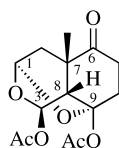
$[\alpha]_D^{20} = +40$ (c 1.5, CHCl₃)

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

Absolute configuration: (1R,3R,6S,7S,8S,9R)

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$C_{14}H_{18}O_7$

Acetic acid 3-acetoxy-7-methyl-6-oxo-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

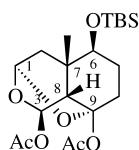
$[\alpha]_D^{20} = +17$ (c 1.2, CHCl₃)

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

Absolute configuration: (1R,3R,7S,8S,9R)

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$C_{14}H_{18}O_7$

Acetic acid 3-acetoxy-6-(*tert*-butyl-dimethyl-silyloxy)-7-methyl-2,10-dioxo-tricyclo[5.3.1.0^{0,0}]undec-9-yl ester

Ee = >97%

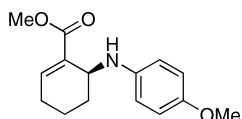
$[\alpha]_D^{20} = +3$ (c 1.5, CHCl₃)

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

Absolute configuration: (1R,3R,8S,9R,6S,7S)

Tetsuhiro Nemoto, Shinji Tamura, Tatsuro Sakamoto, Yasumasa Hamada*

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$C_{15}H_{19}NO_3$

(6S)-6-(4-Methoxy-phenylamino)-cyclohex-1-enecarboxylic acid methyl ester

Ee = 94%

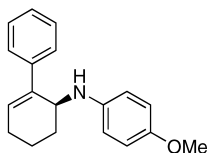
$[\alpha]_D^{20} = -98.2$ (c 0.62, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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$C_{19}H_{21}NO$

(1S)-(4-Methoxy-phenyl)-2-phenyl-cyclohex-2-enyl)-amine

Ee = 97%

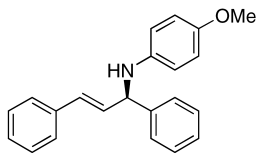
$[\alpha]_D^{23} = -165.4$ (c 0.14, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

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C₂₂H₂₁NO

(1*R*)-(1,3-Diphenyl-allyl)-(4-methoxy-phenyl)-amine

Ee = 97%

$[\alpha]_D^{22} = -56.2$ (c 0.80, CHCl₃)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)