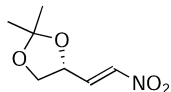


Stereochemistry abstracts

Fernando Fernández, José M. Otero, Juan C. Estévez
and Ramón J. Estévez*

Tetrahedron: Asymmetry 17 (2006) 3063



(4R)-2,2-Dimethyl-4-((E)-2-nitrovinyl)-1,3-dioxolane

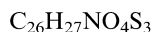
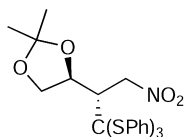
$[\alpha]_D^{27} = -37.8$ (c 1.05, $CHCl_3$)

Source of asymmetry: L-ascorbic acid

Absolute configuration: (4R)

Fernando Fernández, José M. Otero, Juan C. Estévez
and Ramón J. Estévez*

Tetrahedron: Asymmetry 17 (2006) 3063



(4S)-2,2-Dimethyl-4-((2'S)-3'-nitro-1',1',1'-tris(phenylthio)propan-2'-yl)-1,3-dioxolane

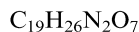
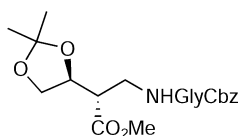
$[\alpha]_D^{27} = -44.5$ (c 1.05, $CHCl_3$)

Source of asymmetry: D-mannitol

Absolute configuration: (4S,2'S)

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and Ramón J. Estévez*

Tetrahedron: Asymmetry 17 (2006) 3063



Methyl (2S)-2-((4'S)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)-3-((N-(benzyloxycarbonyl)glycyl)amino)propanoate

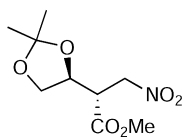
$[\alpha]_D^{27} = -14.7$ (c 1.20, $CHCl_3$)

Source of asymmetry: D-mannitol

Absolute configuration: (2S,4'S)

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and Ramón J. Estévez*

Tetrahedron: Asymmetry 17 (2006) 3063



(2S)-Methyl 2-((4'S)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)-3-nitropropanoate

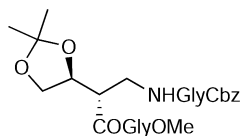
$[\alpha]_D^{26} = -23.2$ (c 1.23, $CHCl_3$)

Source of asymmetry: D-mannitol

Absolute configuration: (2S,4'S)

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and Ramón J. Estévez*

Tetrahedron: Asymmetry 17 (2006) 3063



$C_{21}H_{29}N_3O_8$

Methyl *N*-((2*S*)-2-((4'*S*)-2',2'-dimethyl-1',3'-dioxolan-4'-yl)-3-((*N*-(methoxycarbonyl)glycyl)amino)propanoyl)glycinate

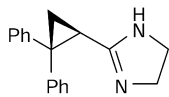
$[\alpha]_D^{27} = -15.8$ (*c* 2.30, $CHCl_3$)

Source of asymmetry: *D*-mannitol

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

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{18}H_{18}N_2$

4,5-Dihydro-2-((*R*)-2,2-diphenylcyclopropyl)-1*H*-imidazole

Ee = 76%

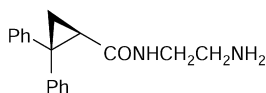
$[\alpha]_D^{24} = +30.1$ (*c* 1.12, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: (*R*)

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{18}H_{20}N_2O$

(*R*)-*N*-(2-Aminoethyl)-2,2-diphenylcyclopropanecarboxamide

Ee = 76%

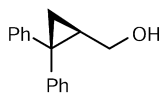
$[\alpha]_D^{24} = +102.8$ (*c* 1.03, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: (*R*)

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{16}H_{16}O$

(*R*)-2,2-Diphenylcyclopropylmethanol

Ee = 76%

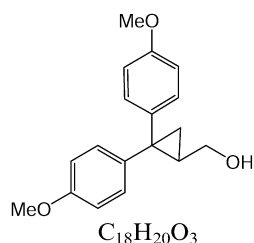
$[\alpha]_D^{24} = +115.9$ (*c* 1.07, $CHCl_3$)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: (*R*)

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



2,2-Bis(4-methoxyphenyl)cyclopropylmethanol

Ee = 48%

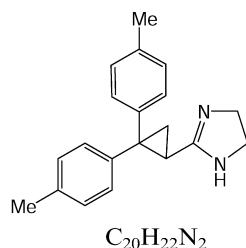
$[\alpha]_D^{24} = +60.4$ (c 1.41, $CHCl_3$)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

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4,5-Dihydro-2-(2,2-di-*p*-tolylcyclopropyl)-1*H*-imidazole

Ee = 67%

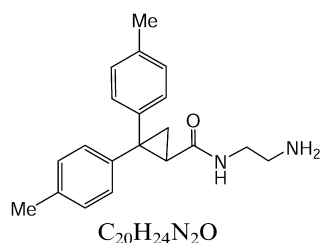
$[\alpha]_D^{23} = +25.6$ (c 0.64, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



N-(2-Aminoethyl)-2,2-di-*p*-tolylcyclopropanecarboxamide

Ee = 67%

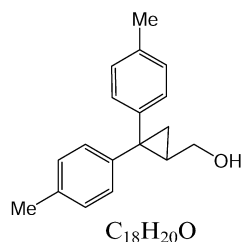
$[\alpha]_D^{24} = +23.9$ (c 1.38, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



2,2-Di-*p*-tolylcyclopropylmethanol

Ee = 67%

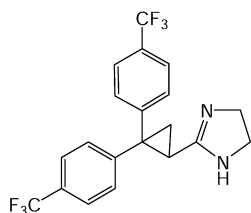
$[\alpha]_D^{24} = +95.4$ (c 1.33, $CHCl_3$)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{20}H_{16}F_6N_2$

2-(2,2-Bis(4-(trifluoromethyl)phenyl)cyclopropyl)-4,5-dihydro-1*H*-imidazole

Ee = 20%

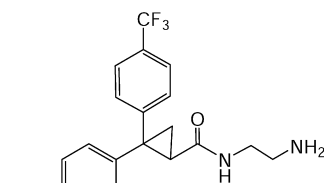
$[\alpha]_D^{23} = +21.6$ (*c* 0.75, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{20}H_{18}F_6N_2O$

N-(2-Aminoethyl)-2,2-bis(4-(trifluoromethyl)phenyl)cyclopropanecarboxamide

Ee = 20%

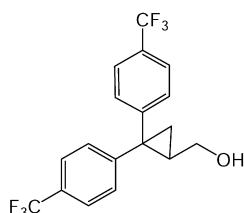
$[\alpha]_D^{21} = +19.2$ (*c* 1.27, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{18}H_{14}F_6O$

2,2-Bis(4-(trifluoromethyl)phenyl)cyclopropylmethanol

Ee = 20%

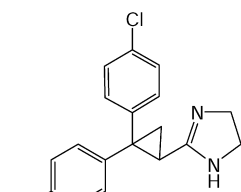
$[\alpha]_D^{23} = +13.4$ (*c* 1.29, CHCl₃)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



$C_{18}H_{16}Cl_2N_2$

2-(2,2-Bis(4-chlorophenyl)cyclopropyl)-4,5-dihydro-1*H*-imidazole

Ee = 29%

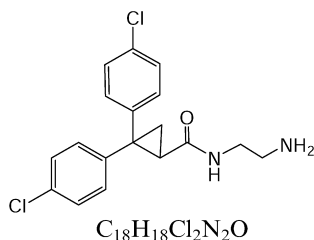
$[\alpha]_D^{23} = +3.3$ (*c* 0.67, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



N-(2-Aminoethyl)-2,2-bis(4-chlorophenyl)cyclopropanecarboxamide

Ee = 29%

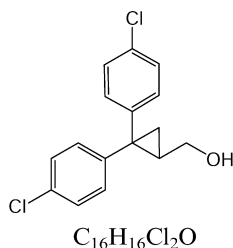
$[\alpha]_D^{23} = +38.7$ (*c* 1.39, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



2,2-Bis(4-chlorophenyl)cyclopropylmethanol

Ee = 29%

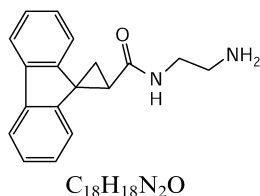
$[\alpha]_D^{23} = +30.6$ (*c* 1.58, $CHCl_3$)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



N-(2-Aminoethyl)-2,2-biphenylencyclopropanecarboxamide

Ee = 51%

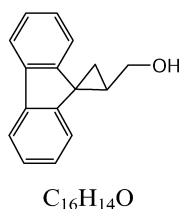
$[\alpha]_D^{23} = +97.4$ (*c* 1.63, MeOH)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Tsuyoshi Miura, Yasuoki Murakami and Nobuyuki Imai*

Tetrahedron: Asymmetry 17 (2006) 3067



2,2-Biphenylencyclopropylcarbinol

Ee = 51%

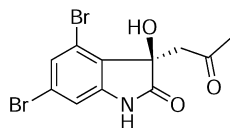
$[\alpha]_D^{24} = +9.4$ (*c* 1.41, $CHCl_3$)

Source of chirality: catalytic enantioselective cyclopropanation

Absolute configuration: unknown

Giancarlo Cravotto, Giovanni B. Giovenzana, Giovanni Palmisano,*
Andrea Penoni, Tullio Pilati, Massimo Sisti and Federica Stazi

Tetrahedron: Asymmetry 17 (2006) 3070



(3*R*)-4,6-Dibromo-3-hydroxy-3-(2-oxopropyl)-1,3-dihydroindol-2-one ((+)-convolutamydine A)

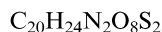
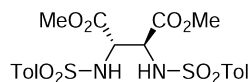
$[\alpha]_D^{20} = +48.2$ (*c* 0.20, MeOH)

Source of chirality: (-)-(1*R*,2*S*,5*R*)-8-phenylmenthol

Absolute configuration: (3*R*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-bis(4-methylphenylsulfonamido)succinate

Ee = 100%

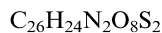
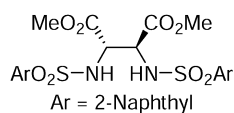
$[\alpha]_D^{25} = +123$ (*c* 0.23, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-bis(naphthalene-2-sulfonamido)succinate

Ee = 100%

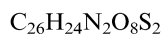
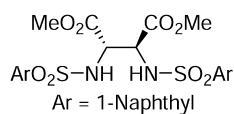
$[\alpha]_D^{25} = +138$ (*c* 0.26, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-bis(naphthalene-1-sulfonamido)succinate

Ee = 100%

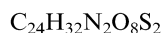
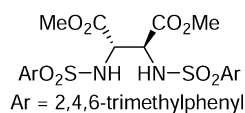
$[\alpha]_D^{25} = +146$ (*c* 0.23, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-bis(2,4,6-trimethylphenylsulfonamido)succinate

Ee = 100%

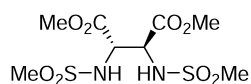
$[\alpha]_{\text{D}}^{25} = +81$ (*c* 0.31, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-di(methylsulfonamido)succinate

Ee = 100%

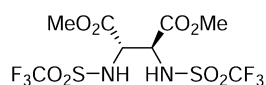
$[\alpha]_{\text{D}}^{25} = +32$ (*c* 0.2, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Dimethyl (*S,S*)-2,3-bis(trifluoromethylsulfonamido)succinate

Ee = 100%

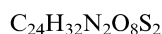
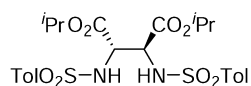
$[\alpha]_{\text{D}}^{25} = +26$ (*c* 0.22, EtOH)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Diisopropyl (*S,S*)-2,3-bis(4-methylphenylsulfonamido)succinate

Ee = 100%

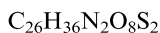
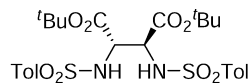
$[\alpha]_{\text{D}}^{25} = +63$ (*c* 0.15, EtOH)

Source of Chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-bis(4-methylphenylsulfonamido)succinate

Ee = 100%

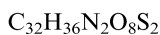
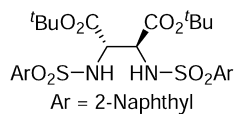
$[\alpha]_{\text{D}}^{25} = +103$ (*c* 0.21, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-bis(naphthalene-2-sulfonamido)succinate

Ee = 100%

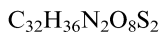
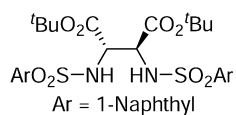
$[\alpha]_{\text{D}}^{25} = +131$ (*c* 0.2, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-bis(naphthalene-1-sulfonamido)succinate

Ee = 100%

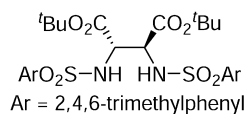
$[\alpha]_{\text{D}}^{25} = +104$ (*c* 0.2, EtOH)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-bis(2,4,6-trimethylphenylsulfonamido)succinate

Ee = 100%

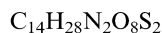
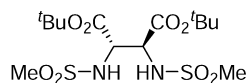
$[\alpha]_{\text{D}}^{25} = +89$ (*c* 0.24, CHCl₃)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-di(methylsulfonamido)succinate

Ee = 100%

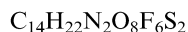
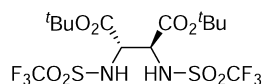
$[\alpha]_D^{25} = -5$ (c 0.2, $CHCl_3$)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



Di-*tert*-butyl (*S,S*)-2,3-bis(trifluoromethylsulfonamido)succinate

Ee = 100%

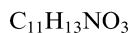
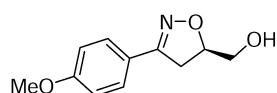
$[\alpha]_D^{25} = +10$ (c 0.22, $CHCl_3$)

Source of chirality: L-aspartic acid

Absolute configuration: (*S,S*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



(*R*)-5-(Hydroxymethyl)-3-(4-methoxyphenyl)-2-isoxazoline

Ee = 71%

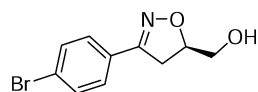
$[\alpha]_D^{25} = -94$ (c 0.53, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



(*R*)-5-(Hydroxymethyl)-3-(4-bromophenyl)-2-isoxazoline

Ee = 57%

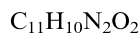
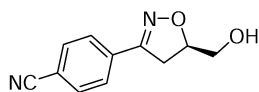
$[\alpha]_D^{25} = -61$ (c 0.29, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Masakazu Serizawa, Yutaka Ukaji* and Katsuhiko Inomata*

Tetrahedron: Asymmetry 17 (2006) 3075



(*R*)-5-(Hydroxymethyl)-3-(4-cyanophenyl)-2-isoxazoline

Ee = 49%

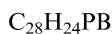
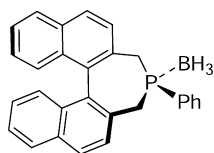
$[\alpha]_D^{25} = -75$ (c 0.22, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*R*)

Peter Kasák, Vladimír B. Arion and Michael Widhalm*

Tetrahedron: Asymmetry 17 (2006) 3084



(*S*_a)-4-Phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*;1',2'-*e*]phosphepine borane complex

Ee = 100%

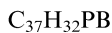
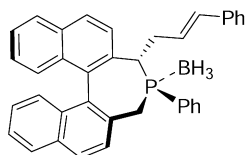
$[\alpha]_D^{20} = +106$ (c 1.0, CHCl₃)

Source of chirality: diastereoselective synthesis

Absolute configuration: (*S*_a)

Peter Kasák, Vladimír B. Arion and Michael Widhalm*

Tetrahedron: Asymmetry 17 (2006) 3084



(*S*,*S*_a,*S*_P)-3-Cinnamyl-4-phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*;1',2'-*e*]phosphepine borane complex

Ee = 100%

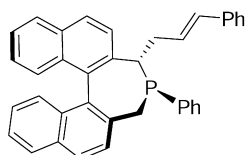
$[\alpha]_D^{20} = +404$ (c 0.5, CHCl₃)

Source of chirality: diastereoselective synthesis

Absolute configuration: (*S*,*S*_a,*S*_P)

Peter Kasák, Vladimír B. Arion and Michael Widhalm*

Tetrahedron: Asymmetry 17 (2006) 3084



(*S*,*S*_a,*S*_P)-3-Cinnamyl-4-phenyl-4,5-dihydro-3*H*-dinaphtho[2,1-*c*;1',2'-*e*]phosphepine

Ee = 100%

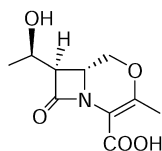
$[\alpha]_D^{20} = +286$ (c 0.5, CHCl₃)

Source of chirality: diastereoselective synthesis

Absolute configuration: (*S*,*S*_a,*S*_P)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



C₁₀H₁₃NO₅

(6*R*,7*R*)-7-[(1*R*)-1-Hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylic acid

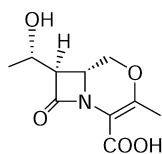
$[\alpha]_D^{20} = -220.8$ (*c* 1.0, MeOH)

Source of chirality: L-threonine

Absolute configuration: (α *R*,6*R*,7*R*)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



C₁₀H₁₃NO₅

(6*R*,7*R*)-7-[(1*S*)-1-Hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylic acid

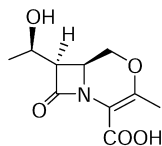
$[\alpha]_D^{20} = -232.3$ (*c* 1.0, MeOH)

Source of chirality: L-threonine

Absolute configuration: (α *S*,6*R*,7*R*)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



C₁₀H₁₃NO₅

(6*S*,7*R*)-7-[(1*R*)-1-Hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylic acid

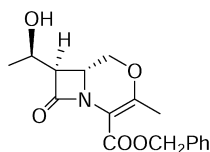
$[\alpha]_D^{25.5} = +175.8$ (*c* 1.0, MeOH)

Source of chirality: L-threonine

Absolute configuration: (α *R*,6*S*,7*R*)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



C₁₇H₁₉NO₅

Benzyl (6*R*,7*R*)-7-[(1*R*)-1-hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylate

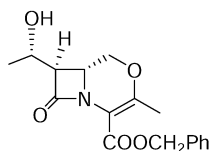
$[\alpha]_D^{23.5} = -184.3$ (*c* 1.0, CH₂Cl₂)

Source of chirality: L-threonine

Absolute configuration: (α *R*,6*R*,7*R*)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



$C_{17}H_{19}NO_5$

Benzyl (6*R*,7*R*)-7-[(1*S*)-1-hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylate

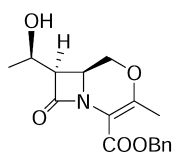
$[\alpha]_D^{23} = -190.7$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-threonine

Absolute configuration: (α *S*,6*R*,7*R*)

Zsuzsanna Sánta, József Nagy and József Nyitrai*

Tetrahedron: Asymmetry 17 (2006) 3111



$C_{17}H_{19}NO_5$

Benzyl (6*S*,7*R*)-7-[(1*R*)-1-hydroxyethyl]-3-methyl-2-*iso*-oxacephem-4-carboxylate

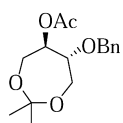
$[\alpha]_D^{26} = +103.5$ (*c* 1.0, CH_2Cl_2)

Source of chirality: L-threonine

Absolute configuration: (α *R*,6*S*,7*R*)

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{16}H_{22}O_5$

(5*R*,6*R*)-6-(Benzyloxy)-2,2-dimethyl-1,3-dioxepan-5-yl acetate

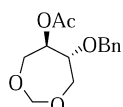
Ee = 14%

$[\alpha]_D^{26} = -2.6$ (*c* 0.69, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{14}H_{18}O_5$

(5*R*,6*R*)-6-(Benzyloxy)-1,3-dioxepan-5-yl acetate

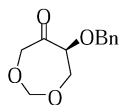
Ee = >99%

$[\alpha]_D^{31} = -11.7$ (*c* 0.88, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{12}H_{14}O_4$

(*S*)-6-(Benzyloxy)-1,3-dioxepan-5-one

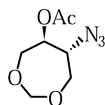
$E_e = >99\%$

$[\alpha]_D^{26} = -28.1$ (c 0.33, $CHCl_3$)

Absolute configuration: (*S*)

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_7H_{11}N_3O_4$

(*5S,6R*)-6-Azido-1,3-dioxepan-5-yl acetate

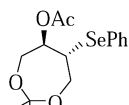
$E_e = 96\%$

$[\alpha]_D^{23} = -40.35$ (c 0.49, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{15}H_{20}O_4Se$

(*5R,6R*)-2,2-Dimethyl-6-(phenylseleno)-1,3-dioxepan-5-yl acetate

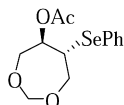
$E_e = >99\%$

$[\alpha]_D^{26} = -29.8$ (c 1.47, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{13}H_{16}O_4Se$

(*5R,6R*)-6-(Phenylseleno)-1,3-dioxepan-5-yl acetate

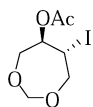
$E_e = >99\%$

$[\alpha]_D^{25} = -15.0$ (c 1.06, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_9H_{15}IO_4$

(5*R*,6*R*)-6-Iodo-1,3-dioxepan-5-yl acetate

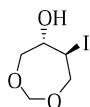
Ee = 90%

$[\alpha]_D^{23} = -41.7$ (*c* 0.79, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_7H_{13}IO_3$

(5*S*,6*S*)-6-Iodo-1,3-dioxepan-5-ol

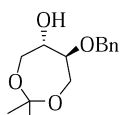
Ee = 70%

$[\alpha]_D^{24} = +14.4$ (*c* 0.55, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{14}H_{20}O_4$

(5*S*,6*S*)-6-(Benzyloxy)-2,2-dimethyl-1,3-dioxepan-5-ol

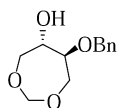
Ee = 14%

$[\alpha]_D^{25} = +2.0$ (*c* 1.26, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{12}H_{16}O_4$

(5*S*,6*S*)-6-(Benzyloxy)-1,3-dioxepan-5-ol

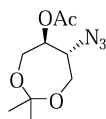
Ee = >99%

$[\alpha]_D^{30} = +29.0$ (*c* 0.82, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_9H_{15}N_3O_4$

(5*S*,6*R*)-6-Azido-2,2-dimethyl-1,3-dioxepan-5-yl acetate

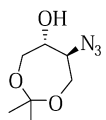
Ee = 93%

$[\alpha]_D^{22} = -43.3$ (c 0.49, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_7H_{13}N_3O_3$

(5*R*,6*S*)-6-Azido-2,2-dimethyl-1,3-dioxepan-5-ol

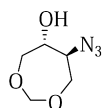
Ee = >99%

$[\alpha]_D^{27} = +91.9$ (c 0.40, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_5H_9N_3O_3$

(5*R*,6*S*)-6-Azido-1,3-dioxepan-5-ol

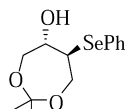
Ee = >99%

$[\alpha]_D^{23} = +50.8$ (c 0.48, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{13}H_{18}O_3Se$

(5*S*,6*S*)-2,2-Dimethyl-6-(phenylseleno)-1,3-dioxepan-5-ol

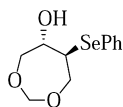
Ee = >99%

$[\alpha]_D^{26} = +17.4$ (c 1.02, $CHCl_3$)

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

Michelangelo Gruttadauria,* Paolo Lo Meo, Serena Riela,
Francesco Giacalone and Renato Noto

Tetrahedron: Asymmetry 17 (2006) 3128



$C_{11}H_{14}O_3Se$

(5S,6S)-6-(Phenylseleno)-1,3-dioxepan-5-ol

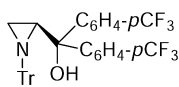
Ee = >99%

$[\alpha]_D^{26} = +4.0$ (c 0.95, $CHCl_3$)

Absolute configuration: (5S,6S)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



$C_{36}H_{27}F_6NO$

(2S)-1-Tritylaziridin-2-ylbis[4-(trifluoromethyl)phenyl]methanol

Ee >99%

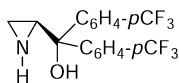
$[\alpha]_D^{20} = -76.1$ (c 0.72, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



$C_{17}H_{13}F_6NO$

((S)-Aziridin-2-yl)bis[4-(trifluoromethyl)phenyl]methanol

Ee >99%

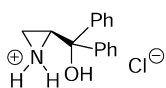
$[\alpha]_D^{20} = -14.7$ (c 1.0, $CHCl_3$)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



$C_{15}H_{16}ClNO$

((S)-Aziridin-2-yl)diphenylmethanol-HCl salt

Ee >99%

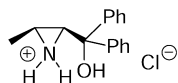
$[\alpha]_D^{20} = +44.9$ (c 1.00, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (S)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



(2*S*,3*S*)-3-Methylaziridin-2-yl(diphenyl)methanol-HCl salt

Ee >99%

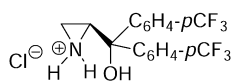
$[\alpha]_D^{20} = +44.9$ (c 1.00, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



((*S*)-Aziridin-2-yl)bis[4-(trifluoromethyl)phenyl]methanol-HCl salt

Ee >99%

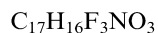
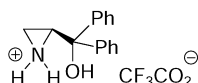
$[\alpha]_D^{20} = +44.5$ (c 0.6, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



((*S*)-Aziridin-2-yl)diphenylmethanol-TFA salt

Ee >99%

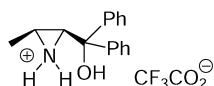
$[\alpha]_D^{20} = +31.3$ (c 0.67, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Bianca F. Bonini,* Elena Capitò, Mauro Comes-Franchini,
Mariafrancesca Fochi, Alfredo Ricci and Binne Zwanenburg

Tetrahedron: Asymmetry 17 (2006) 3135



(2*S*,3*S*)-3-Methylaziridin-2-yl(diphenyl)methanol-TFA salt

Ee >99%

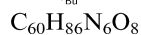
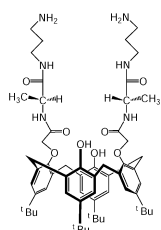
$[\alpha]_D^{20} = +35.2$ (c 0.885, MeOH)

Source of chirality: asymmetric synthesis

Absolute configuration: (*S*)

Guang-yan Qing, Yong-bing He,* Zhi-hong Chen, Xiao-jun Wu and Ling-zhi Meng

Tetrahedron: Asymmetry 17 (2006) 3144



5,11,17,23-Tetra-4-*tert*-butyl-25,27-bis((*S*)-2-acetamido-*N*-(3-aminopropyl)propanamide)-26,28-dihydroxycalix[4]arene

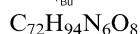
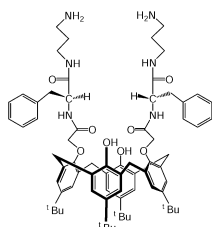
$$[\alpha]_D^{20} = +5.2 (c 0.015, CHCl_3)$$

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

Guang-yan Qing, Yong-bing He,* Zhi-hong Chen, Xiao-jun Wu and Ling-zhi Meng

Tetrahedron: Asymmetry 17 (2006) 3144



5,11,17,23-Tetra-4-*tert*-butyl-25,27-bis((*S*)-2-acetamido-*N*-(3-aminopropyl)-3-phenylpropanamide)-26,28-dihydroxycalix[4]arene

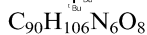
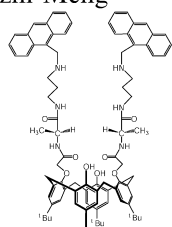
$$[\alpha]_D^{20} = -11.3 (c 0.015, CHCl_3)$$

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

Guang-yan Qing, Yong-bing He,* Zhi-hong Chen, Xiao-jun Wu and Ling-zhi Meng

Tetrahedron: Asymmetry 17 (2006) 3144



5,11,17,23-Tetra-4-*tert*-butyl-25,27-bis((*S*)-2-acetamido-*N*-(3-(anthracen-10-ylmethylamino)propyl)propanamide)-26,28-dihydroxycalix[4]arene

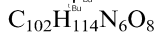
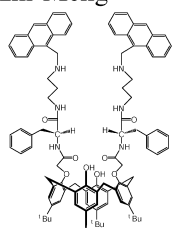
$$[\alpha]_D^{20} = -12.5 (c 0.015, CHCl_3)$$

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

Guang-yan Qing, Yong-bing He,* Zhi-hong Chen, Xiao-jun Wu and Ling-zhi Meng

Tetrahedron: Asymmetry 17 (2006) 3144



5,11,17,23-Tetra-4-*tert*-butyl-25,27-bis((*S*)-2-acetamido-*N*-(3-(anthracen-10-ylmethylamino)propyl)-3-phenylpropanamide)-26,28-dihydroxycalix[4]arene

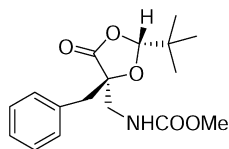
$$[\alpha]_D^{20} = -36.2 (c 0.015, CHCl_3)$$

Source of chirality: chiral pool

Absolute configuration: (*S,S*)

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



$C_{17}H_{23}NO_5$

Methyl ((2*R*,4*R*)-2-*tert*-butyl-4-benzyl-5-oxo-1,3-dioxolan-4-yl)carbamate

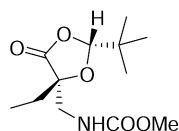
$[\alpha]_D^{18} = -30.0$ (*c* 1.0, CH_2Cl_2)

Source of chirality: *D*-malic acid and diastereoselective synthesis

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

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



$C_{12}H_{21}NO_5$

Methyl ((2*R*,4*R*)-2-*tert*-butyl-4-ethyl-5-oxo-1,3-dioxolan-4-yl)carbamate

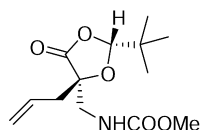
$[\alpha]_D^{18} = -18.1$ (*c* 1.0, CH_2Cl_2)

Source of chirality: *D*-malic acid and diastereoselective synthesis

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

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



$C_{13}H_{21}NO_5$

Methyl ((2*R*,4*R*)-2-*tert*-butyl-4-allyl-5-oxo-1,3-dioxolan-4-yl)carbamate

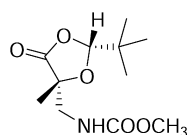
$[\alpha]_D^{18} = -26.0$ (*c* 1.3, CH_2Cl_2)

Source of chirality: *D*-malic acid and diastereoselective synthesis

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

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



$C_{11}H_{19}NO_5$

Methyl ((2*R*,4*R*)-2-*tert*-butyl-4-methyl-5-oxo-1,3-dioxolan-4-yl)carbamate

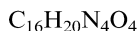
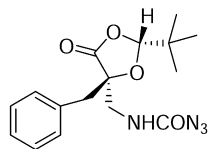
$[\alpha]_D^{18} = -9.3$ (*c* 1.1, CH_2Cl_2)

Source of chirality: *D*-malic acid and diastereoselective synthesis

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

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



Azido-*N*-((2*R*,4*R*)-4-benzyl-2-*tert*-butyl-5-oxo-1,3-dioxolan-4-yl)formamide

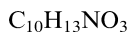
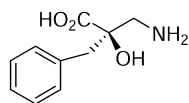
$$[\alpha]_D^{18} = -24.0 (c 1.0, CH_2Cl_2)$$

Source of chirality: *D*-malic acid and diastereoselective synthesis

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

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



(*R*)-3-Amino-2-benzyl-2-hydroxypropanoic acid

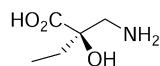
$$[\alpha]_D^{18} = -53.0 (c 0.45, H_2O)$$

Source of chirality: *D*-malic acid and diastereoselective synthesis

Absolute configuration: (*R*)

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



(*R*)-2-(Aminomethyl)-2-hydroxybutanoic acid

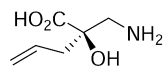
$$[\alpha]_D^{18} = -18.0 (c 1.0, H_2O)$$

Source of chirality: *D*-malic acid and diastereoselective synthesis

Absolute configuration: (*R*)

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



(*R*)-2-(Aminomethyl)-2-hydroxy-4-pentenoic acid

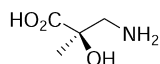
$$[\alpha]_D^{18} = -43.7 (c 0.50, H_2O)$$

Source of chirality: *D*-malic acid and diastereoselective synthesis

Absolute configuration: (*R*)

Yan Huang, Yong-Bo Zhang, Zhi-Ce Chen and Peng-Fei Xu*

Tetrahedron: Asymmetry 17 (2006) 3152



(*R*)-3-Amino-2-hydroxy-2-methylpropanoic acid

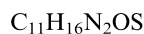
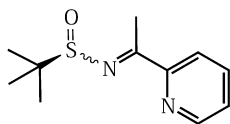
$$[\alpha]_D^{18} = -11.5 (c 1.0, H_2O)$$

Source of chirality: D-malic acid and diastereoselective synthesis

Absolute configuration: (*R*)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa, Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



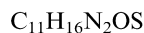
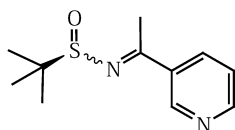
(*R_S*)-*N*-[1-(Pyridin-2-yl)ethylidene]-2-methylpropane-2-sulfonamide

$$[\alpha]_D^{25} = -49.5 (c 0.075, CHCl_3)$$

Absolute configuration: (*R_S*)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa, Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



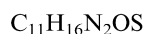
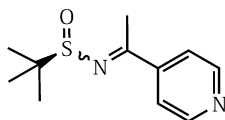
(*R_S*)-*N*-[1-(Pyridin-3-yl)ethylidene]-2-methylpropane-2-sulfonamide

$$[\alpha]_D^{25} = +11.2 (c 0.040, CHCl_3)$$

Absolute configuration: (*R_S*)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa, Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



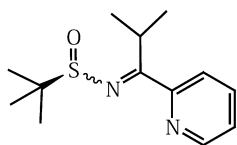
(*R_S*)-*N*-[1-(Pyridin-4-yl)ethylidene]-2-methylpropane-2-sulfonamide

$$[\alpha]_D^{25} = -20.1 (c 0.141, CHCl_3)$$

Absolute configuration: (*R_S*)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



C₁₃H₂₀N₂OS

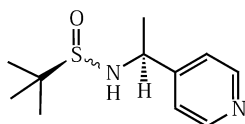
(*R*_S)-*N*-[2-Methyl-1-(pyridin-2-yl)propylidene]-2-methylpropane-2-sulfinamide

$[\alpha]_D^{25} = -171.0$ (*c* 0.074, CHCl₃)

Absolute configuration: (*R*_S)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



C₁₁H₁₈N₂OS

(*R*_S,*S*)-*N*-[1-(Pyridin-4-yl)ethyl]-2-methylpropane-2-sulfinamide

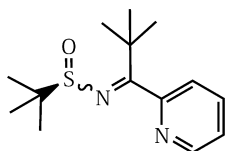
$[\alpha]_D^{25} = -50.0$ (*c* 0.036, CHCl₃)

Absolute configuration: (*R*_S,*S*)

Prepared from 4-acetylpyridine

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



C₁₄H₂₂N₂OS

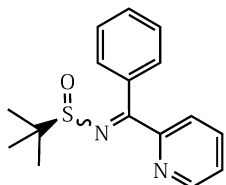
(*R*_S)-*N*-[2,2-Dimethyl-1-(pyridin-2-yl)propylidene]-2-methylpropane-2-sulfinamide

$[\alpha]_D^{25} = -179.7$ (*c* 0.028, CHCl₃)

Absolute configuration: (*R*_S)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



C₁₆H₁₈N₂OS

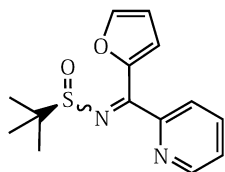
(*R*_S)-*N*-[Phenyl(pyridin-2-yl)methylene]-2-methylpropane-2-sulfinamide

$[\alpha]_D^{25} = -123.6$ (*c* 0.071, CHCl₃)

Absolute configuration: (*R*_S)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



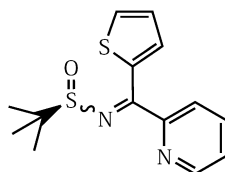
C₁₄H₁₆N₂O₂S

(*R*_S)-*N*-[Furan-2-yl(pyridin-2-yl)methylene]-2-methylpropane-2-sulfonamide

$[\alpha]_D^{25} = -211.6$ (*c* 0.029, CHCl₃)
Absolute configuration: (*R*_S)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



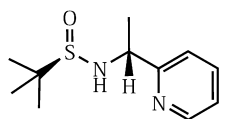
C₁₄H₁₆N₂OS₂

(*R*_S)-*N*-[Pyridin-2-yl(thiophen-2-yl)methylene]-2-methylpropane-2-sulfonamide

$[\alpha]_D^{25} = -83.5$ (*c* 0.074, CHCl₃)
Absolute configuration: (*R*_S)

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



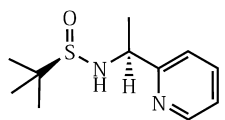
C₁₁H₁₈N₂OS

(*R*_S,*R*)-*N*-[1-(Pyridin-2-yl)ethyl]-2-methylpropane-2-sulfonamide

$[\alpha]_D^{25} = -55.1$ (*c* 0.092, CHCl₃)
Absolute configuration: (*R*_S,*R*)
Prepared from 2-acetylpyridine

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



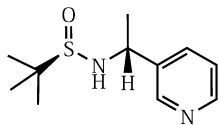
C₁₁H₁₈N₂OS

(*R*_S,*S*)-*N*-[1-(Pyridin-2-yl)ethyl]-2-methylpropane-2-sulfonamide

$[\alpha]_D^{25} = -41.3$ (*c* 0.052, CHCl₃)
Absolute configuration: (*R*_S,*S*)
Prepared from 2-acetylpyridine

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



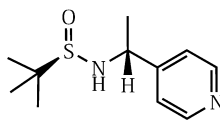
C₁₁H₁₈N₂OS

(*R,S,R*)-*N*-[1-(Pyridin-3-yl)ethyl]-2-methylpropane-2-sulfinamide

$[\alpha]_D^{25} = -33.2$ (*c* 0.032, CHCl₃)
Absolute configuration: (*R,S,R*)
Prepared from 3-acetylpyridine

Giorgio Chelucci,* Salvatore Baldino, Simona Chessa,
Gerard A. Pinna and Franco Soccolini

Tetrahedron: Asymmetry 17 (2006) 3163



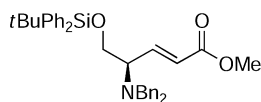
C₁₁H₁₈N₂OS

(*R,S,R*)-*N*-[1-(Pyridin-2-yl)ethyl]-2-methylpropane-2-sulfinamide

$[\alpha]_D^{25} = -32.4$ (*c* 0.094, CHCl₃)
Absolute configuration: (*R,S,R*)
Prepared from 4-acetylpyridine

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



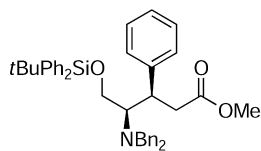
C₃₆H₄₁NO₃Si

Methyl (*4R*)-(*E*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylaminopent-2-enoate

$[\alpha]_D^{23} = -21.4$ (*c* 0.14, CHCl₃)
Source of chirality: L-serine
Absolute configuration: (*R*)

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



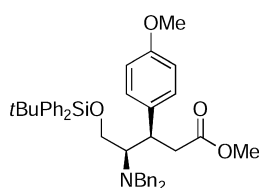
C₄₂H₄₇NO₃Si

Methyl (*3R,4R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-phenylpentanoate

$[\alpha]_D^{23} = -12.6$ (*c* 0.15, CHCl₃)
Source of chirality: L-serine
Absolute configuration: (*3R,4R*)

Shiva K. Rastogi and Alexander Kornienko*

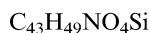
Tetrahedron: Asymmetry 17 (2006) 3170



$$[\alpha]_D^{24} = -10.7 (c 0.06, \text{CHCl}_3)$$

Source of chirality: L-serine

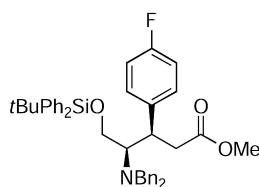
Absolute configuration: (3*R*,4*R*)



Methyl (3*R*,4*R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-(4-methoxyphenyl)pentanoate

Shiva K. Rastogi and Alexander Kornienko*

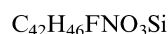
Tetrahedron: Asymmetry 17 (2006) 3170



$$[\alpha]_D^{24} = -22.9 (c 0.02, \text{CHCl}_3)$$

Source of chirality: L-serine

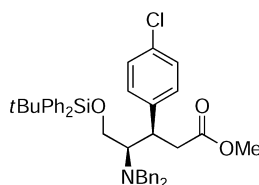
Absolute configuration: (3*R*,4*R*)



Methyl (3*R*,4*R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-(4-fluorophenyl)pentanoate

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$$[\alpha]_D^{24} = -11.8 (c 0.1, \text{CHCl}_3)$$

Source of chirality: L-serine

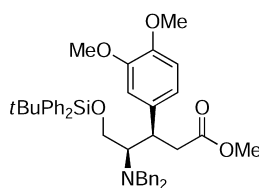
Absolute configuration: (3*R*,4*R*)



Methyl (3*R*,4*R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-(4-chlorophenyl)pentanoate

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$$[\alpha]_D^{24} = -13.6 (c 0.03, \text{CHCl}_3)$$

Source of chirality: L-serine

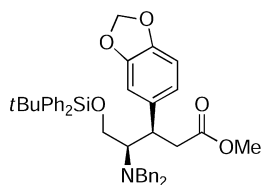
Absolute configuration: (3*R*,4*R*)



Methyl (3*R*,4*R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-(3,4-dimethoxyphenyl)pentanoate

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{43}H_{48}NO_5Si$

Methyl (3*R*,4*R*)-5-(*tert*-butyldiphenylsilyloxy)-4-dibenzylamino-3-(benzo[1,3]dioxol-5-yl)pentanoate

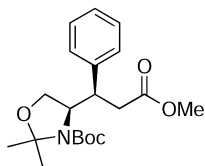
$[\alpha]_D^{24} = -9.1$ (*c* 0.01, $CHCl_3$)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{20}H_{29}NO_5$

(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-phenylethyl)-2,2-dimethylloxazolidine-3-carboxylate

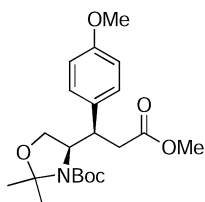
$[\alpha]_D^{21} = +35.7$ (*c* 0.02, $CHCl_3$)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{21}H_{31}NO_6$

(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(4-methoxyphenyl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

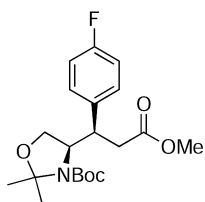
$[\alpha]_D^{21} = +40.0$ (*c* 0.02, $CHCl_3$)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{20}H_{28}FNO_5$

(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(4-fluorophenyl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

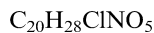
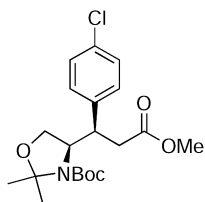
$[\alpha]_D^{21} = +33.6$ (*c* 0.03, $CHCl_3$)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(4-chlorophenyl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

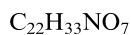
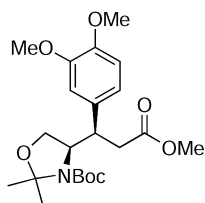
$[\alpha]_D^{21} = +26.0$ (*c* 0.03, $CHCl_3$)

Source of chirality: L-serine

Absolute configuration: (*R,R*)

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(3,4-dimethoxyphenyl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

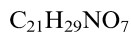
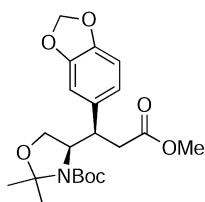
$[\alpha]_D^{21} = +38.2$ (*c* 0.01, $CHCl_3$)

Source of chirality: L-serine

Absolute configuration: (*R,R*)

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(benzo[*d*][1,3]dioxol-6-yl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

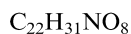
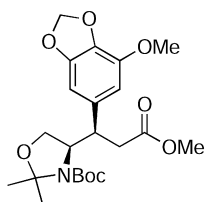
$[\alpha]_D^{21} = +29.4$ (*c* 0.02, $CHCl_3$)

Source of chirality: L-serine

Absolute configuration: (*R,R*)

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(*R*)-*tert*-Butyl-4-((*R*)-2-(methoxycarbonyl)-1-(4-methoxybenzo[*d*][1,3]dioxol-6-yl)ethyl)-2,2-dimethylloxazolidine-3-carboxylate

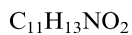
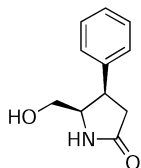
$[\alpha]_D^{21} = +73.3$ (*c* 0.01, $CHCl_3$)

Source of chirality: L-serine

Absolute configuration: (*R,R*)

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(4*R*,5*R*)-5-(Hydroxymethyl)-4-phenylpyrrolidin-2-one

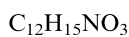
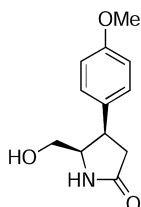
$[\alpha]_D^{23} = -63.4$ (*c* 0.01, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(4*R*,5*R*)-5-(Hydroxymethyl)-4-(4-methoxyphenyl)pyrrolidin-2-one

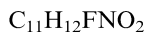
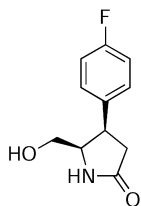
$[\alpha]_D^{23} = -95.7$ (*c* 0.02, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(4*R*,5*R*)-4-(4-Fluorophenyl)-5-(hydroxymethyl)pyrrolidin-2-one

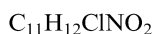
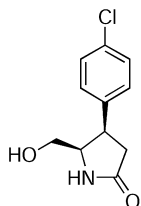
$[\alpha]_D^{23} = -105.7$ (*c* 0.03, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



(4*R*,5*R*)-4-(4-Chlorophenyl)-5-(hydroxymethyl)pyrrolidin-2-one

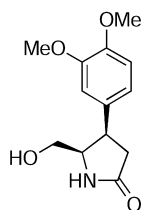
$[\alpha]_D^{23} = -113.7$ (*c* 0.01, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{13}H_{17}NO_4$

(4*R*,5*R*)-5-(Hydroxymethyl)-4-(3,4-dimethoxyphenyl)pyrrolidin-2-one

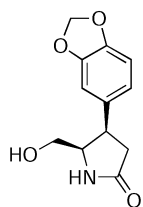
$[\alpha]_D^{21} = -110.0$ (*c* 0.01, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{12}H_{13}NO_4$

(4*R*,5*R*)-4-(Benzo[*d*][1,3]dioxol-6-yl)-5-(hydroxymethyl)pyrrolidin-2-one

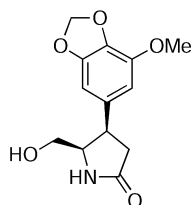
$[\alpha]_D^{23} = -104.2$ (*c* 0.003, CH₃OH)

Source of chirality: L-serine

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

Shiva K. Rastogi and Alexander Kornienko*

Tetrahedron: Asymmetry 17 (2006) 3170



$C_{13}H_{15}NO_5$

(4*R*,5*R*)-5-(Hydroxymethyl)-4-(4-methoxybenzo[*d*][1,3]dioxol-6-yl)pyrrolidin-2-one

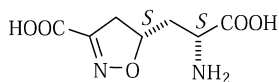
$[\alpha]_D^{24} = -123.4$ (*c* 0.01, CH₃OH)

Source of chirality: L-serine

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

Fiorella Meneghetti,* Gabriella Roda, Stefania Ragone
and Roberto Artali

Tetrahedron: Asymmetry 17 (2006) 3179



$C_7H_{10}N_2O_5$

5-(2-Amino-2-carboxylethyl)-4,5-dihydro-isoxazole-3-carboxylic acid

Ee: 100%

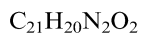
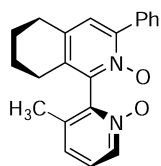
$[\alpha]_D^{20} = -69.0$ (*c* 0.1, water/methanol 1:1)

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

Source of chirality: enzymatic resolution

Radim Hrdina, Aneta Kadlčíková, Irena Valterová,
Jana Hodačová and Martin Kotora*

Tetrahedron: Asymmetry 17 (2006) 3185



(S)-5,6,7,8-Tetrahydro-1-(3-methylpyridin-2-yl)-3-phenylisoquinoline *N,N'*-dioxide

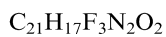
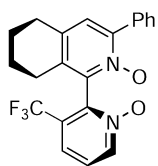
$[\alpha]_D = -350$ (*c* 0.01, $CHCl_3$)

Source of chirality: chiral HPLC separation

Absolute configuration: (*S*)

Radim Hrdina, Aneta Kadlčíková, Irena Valterová,
Jana Hodačová and Martin Kotora*

Tetrahedron: Asymmetry 17 (2006) 3185



(S)-5,6,7,8-Tetrahydro-1-(3-(trifluoromethyl)pyridin-2-yl)-3-phenylisoquinoline

$[\alpha]_D = +39$ (*c* 0.01, $CHCl_3$)

Source of chirality: chiral HPLC separation

Absolute configuration: (*S*)