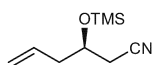


Stereochemistry abstracts

Fang-Jun Xiong, Jie Li, Xiao-Fei Chen, Wen-Xue Chen, Fen-Er Chen *

Tetrahedron: Asymmetry 25 (2014) 1205



$C_9H_{17}NOSi$

(*R*)-3-((Trimethylsilyl)oxy)hex-5-enitrile

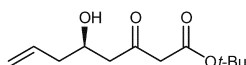
$[\alpha]_D^{21} = -2.2$ (c 1.0, MeOH).

Source of chirality: (*R*)-epichlorohydrin

Absolute configuration: (3*R*)

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$C_{12}H_{20}O_4$

(*R*)-*tert*-Butyl 5-hydroxy-3-oxooct-7-enoate

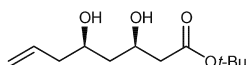
$[\alpha]_D^{21} = -10.3$ (c 1.0, MeOH)

Source of chirality: (*R*)-epichlorohydrin

Absolute configuration: (5*R*)

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Tetrahedron: Asymmetry 25 (2014) 1205



$C_{12}H_{22}O_4$

(3*R*,5*R*)-*tert*-Butyl 3,5-dihydroxyoct-7-enoate

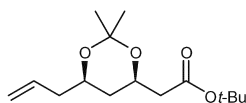
$[\alpha]_D^{21} = -10.5$ (c 1.0, MeOH)

Source of chirality: (*R*)-epichlorohydrin; Stereoselective reduction

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

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Tetrahedron: Asymmetry 25 (2014) 1205



$C_{15}H_{26}O_4$

tert-Butyl 2-((4*R*,6*R*)-6-allyl-2,2-dimethyl-1,3-dioxan-4-yl)acetate

dr = 99:1

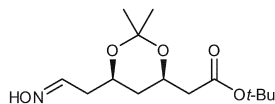
$[\alpha]_D^{21} = +0.7$ (c 1.0, MeOH)

Source of chirality: (*R*)-epichlorohydrin; Stereoselective reduction

Absolute configuration: (4*R*,6*R*)

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Tetrahedron: Asymmetry 25 (2014) 1205



$C_{14}H_{25}NO_5$

tert-Butyl 2-((4*R*,6*R*)-6-((-2-oximeethyl)-2,2-dimethyl-1,3-dioxan-4-yl)acetate

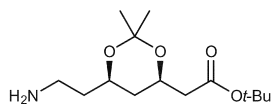
$[\alpha]_D^{24} = -0.6$ (c 1.0, MeOH)

Source of chirality: (*R*)-epichlorohydrin; Stereoselective reduction

Absolute configuration: (4*R*,6*R*)

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Tetrahedron: Asymmetry 25 (2014) 1205



$C_{14}H_{27}NO_4$

tert-Butyl ((4*R*,6*R*)-6-aminoethyl-2,2-dimethyl-1,3-dioxan-4-yl)acetate

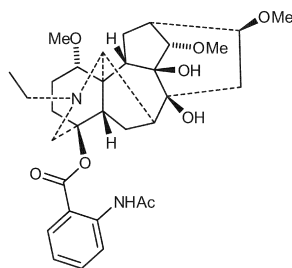
$[\alpha]_D^{14} = +16.9$ (c 0.34, $CHCl_3$)

Source of chirality: (*R*)-epichlorohydrin; Stereoselective reduction

Absolute configuration: (4*R*,6*R*)

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Tetrahedron: Asymmetry 25 (2014) 1215



$C_{32}H_{44}N_2O_8$

Lappaconitine

Source of chirality: natural occurrence

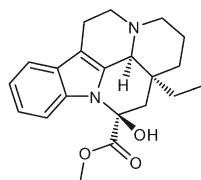
Absolute configuration:

(1*S*,4*S*,5*S*,7*S*,8*S*,9*S*,10*S*,11*S*,13*R*,14*S*,16*S*,17*S*)

$[\alpha]_D^{20} = +29.25$ (c 0.40, MeOH)

Zhi Li, Fan Yang, Qingwei Meng *, Zhanxian Gao

Tetrahedron: Asymmetry 25 (2014) 1215



$C_{21}H_{26}N_2O_3$

Vincamine

Source of chirality: natural occurrence

Absolute configuration: (3*S*,14*S*,16*S*)

$[\alpha]_D^{20} = +11.5$ (c 0.51, CH_2Cl_2)

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