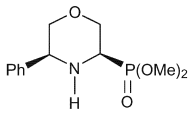
Israel Bonilla-Landa, José Luis Viveros-Ceballos, Mario Ordóñez *

Tetrahedron: Asymmetry *25 (2014) 485*



$C_{12}H_{18}NO_4P$

Dimethyl(3*R*,5*S*)-5-phenylmorpholine-3-phosphonate

De >98%
$[\alpha]_D = +60.0$ (*c* 1.0, $CHCl_3$)
Source of chirality: Asymmetric synthesis
Absolute configuration: (3*R*,5*S*)

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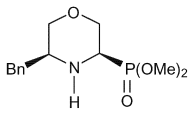

$C_{13}H_{20}NO_4P$

Dimethyl(3*R*,5*S*)-5-benzylmorpholine-3-phosphonate

De >98%
$[\alpha]_D = -65.3$ (*c* 3.0, CH_2Cl_2)
Source of chirality: Asymmetric synthesis
Absolute configuration: (3*R*,5*S*)

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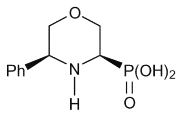

$C_{10}H_{14}NO_4P$

(3*R*,5*S*)-5-Phenylmorpholine-3-phosphonic acid

De >98%
$[\alpha]_D = +32.0$ (*c* 1.0, 1 M NaOH)
Source of chirality: Asymmetric synthesis
Absolute configuration: (3*R*,5*S*)

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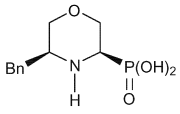

$C_{11}H_{16}NO_4P$

(3*R*,5*S*)-5-Benzylmorpholine-3-phosphonic acid

De >98%
$[\alpha]_D = -42.7$ (*c* 3.0, 1 M NaOH)
Source of chirality: Asymmetric synthesis
Absolute configuration: (3*R*,5*S*)

Viraj P. Patil, Anirban Ghosh, Uddhavesh Sonavane, Rajendra Joshi, Rajiv Sawant, Satish Jadhav, Suresh B. Waghmode *

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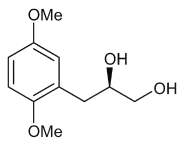

$C_{11}H_{16}O_4$

(+)-(*R*)-3-(2,5-Dimethoxyphenyl)propane-1,2-diol

ee: 98%
$[\alpha]_D^{26} = +10.4$ (*c* 1, $CHCl_3$)
Source of chirality: (*S*)-Proline
Absolute configuration: (3*R*)

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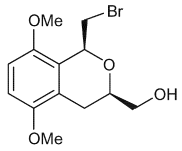

$C_{13}H_{17}BrO_4$

(+)-((1*S*,3*R*)-1-(Bromomethyl)-5,8-dimethoxyisochroman-3-yl)methanol

$[\alpha]_D^{25} = +185.4$ (*c* 1, $CHCl_3$)
Source of chirality: (*S*)-Proline
Absolute configuration: (1*S*,3*R*)

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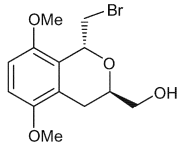

$C_{13}H_{17}BrO_4$

(−)-((1*R*,3*R*)-1-(Bromomethyl)-5,8-dimethoxyisochroman-3-yl)methanol

$[\alpha]_D^{23} = -23.4$ (*c* 1, $CHCl_3$)
Source of chirality: (*S*)-Proline
Absolute configuration: (1*R*,3*R*)

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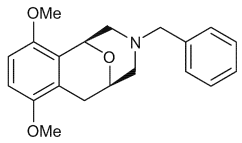

$C_{20}H_{23}NO_3$

(+)-(1*S*,5*R*)-3-Benzyl-7,10-dimethoxy-1,2,3,4,5,6-hexahydro-1,5-epoxybenzo[*d*]azocine

$[\alpha]_D^{25} = +37.5$ (*c* 1, $CHCl_3$)
Source of chirality: (*S*)-Proline
Absolute configuration: (1*S*,5*R*)