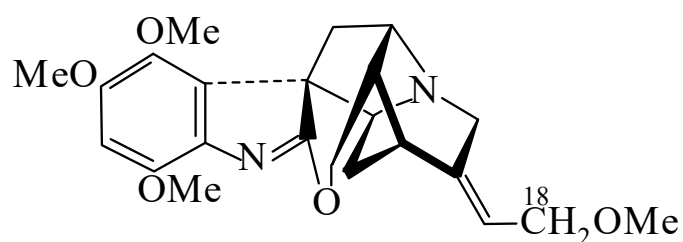




>>Entry Name: Gardneramine

Synonym(s): 1,2-Didehydro-2-deoxo-17-deoxy-2,17-epoxygardneramine oxindole, 9Cl



Absolute
configuration

CAS Registry Number: 34274-91-4

Molecular Formula: $C_{23}H_{28}N_2O_5$

Molecular Weight: 412.485

Accurate Mass: 412.199823

Percentage Composition: C 66.97%; H 6.84%; N 6.79%; O 19.39%

Biological Source: Alkaloid from *Gardneria nutans* (Strychnaceae)

Physical Description: Prisms (Et_2O)

Melting Point: Mp 134-135°

Optical Rotation: $[\alpha]_D -288$

>>Derivative: Cyanobromide

Melting Point: Mp 214°

>>Derivative: N^4 -Oxide

Synonym(s): Gardneramine N^4 -oxide

CAS Registry Number: 64494-86-6

Molecular Formula: $C_{23}H_{28}N_2O_6$

Molecular Weight: 428.484

Accurate Mass: 428.194738

Percentage Composition: C 64.47%; H 6.59%; N 6.54%; O 22.40%

Biological Source: Alkaloid from *Gardneria multiflora* (Strychnaceae)

>>Derivative: O^{18} -De-Me

Synonym(s): O^{18} -Demethylgardneramine

CAS Registry Number: 32975-55-6

Molecular Formula: $C_{22}H_{26}N_2O_5$

Molecular Weight: 398.458

Accurate Mass: 398.184173

Percentage Composition: C 66.32%; H 6.58%; N 7.03%; O 20.08%

Biological Source: Alkaloid from *Gardneria multiflora*

>>Derivative: 18-Demethoxy, (19E)-isomer

Synonym(s): (19E)-18-Demethoxygardneramine

CAS Registry Number: 56246-54-9

Molecular Formula: $C_{22}H_{26}N_2O_4$

Molecular Weight: 382.458

Accurate Mass: 382.189258

Percentage Composition: C 69.09%; H 6.85%; N 7.32%; O 16.73%

Biological Source: Alkaloid from *Gardneria multiflora* (Strychnaceae)

Physical Description: Cryst. (Me_2CO)

Melting Point: Mp 160-161.5°

Optical Rotation: $[\alpha]_D -147$

References:

Aimi, N. *et al.*, *Tet. Lett.*, 1971, 2061, (cryst struct)

Sakai, S. *et al.*, *Tet. Lett.*, 1971, 2057; *Chem. Pharm. Bull.*, 1975, **23**, 2805, (uv, ir, pmr, ms, struct)

Sakai, S. *et al.*, *Tet. Lett.*, 1975, 715, (uv, ir, pmr, config, struct, deriv)

Aimi, N. *et al.*, *Chem. Pharm. Bull.*, 1978, **26**, 3444, (cmr)