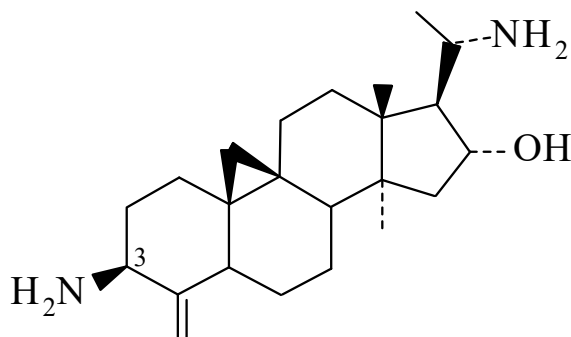




>>Entry Name: Cyclobuxine I

Synonym(s): 3,20-Diamino-4-methylene-14-methyl-9,19-cyclopregnan-16-ol, 9Cl



Molecular Formula: C₂₃H₃₈N₂O

Molecular Weight: 358.566

Accurate Mass: 358.298413

Percentage Composition: C 77.04%; H 10.68%; N 7.81%; O 4.46%

General Statement: The suffix letter in *Buxus* alkaloids systematically designates the *N*-subn. pattern. The parent compd., Cyclobuxine I, is unknown

>>Derivative: *N*³,*N*²⁰-Di-Me

Synonym(s): Cyclobuxine D. Alkaloid A‡. Cyclobuxine

CAS Registry Number: 2241-90-9

Molecular Formula: C₂₅H₄₂N₂O

Molecular Weight: 386.62

Accurate Mass: 386.329713

Percentage Composition: C 77.67%; H 10.95%; N 7.25%; O 4.14%

Biological Source: Alkaloid from *Buxus sempervirens*, *Buxus hyrcana*, *Buxus wallichiana*, *Buxus microphylla*, and *Buxus harlandi* (Buxaceae)

Use/Importance: Shows antiinflammatory and antihypertensive activity

Melting Point: Mp 245-247°

Optical Rotation: [α]_D²³+98 (CHCl₃)

Hazard & Toxicity: LD₅₀ (mus, scu) 300 mg/kg ; BERDY HAZD : LD₅₀ (mus, scu) 400 - 1000 mg/kg

>>Derivative: *N*³,*N*²⁰-Di-Me; hydrobromide

Melting Point: Mp 288-292 dec.°

>>Derivative: *N*³,*N*²⁰-Di-Me,*N*³,*N*²⁰,*O*-tri-Ac

Melting Point: Mp 283-285 dec.°

Optical Rotation: [α]_D²⁴+10 (CHCl₃)

>>Derivative: *N*³,*N*²⁰-Di-Me, 3-epimer

Synonym(s): Pseudocyclobuxine D

CAS Registry Number: 54357-48-1

Molecular Formula: C₂₅H₄₂N₂O

Molecular Weight: 386.62

Accurate Mass: 386.329713

Percentage Composition: C 77.67%; H 10.95%; N 7.25%; O 4.14%

Biological Source: Alkaloid from *Buxus sempervirens* (Buxaceae)

Physical Description: Cryst. (EtOH)

Melting Point: Mp 229-231°

Optical Rotation: [α]_D+89.6 (CHCl₃)