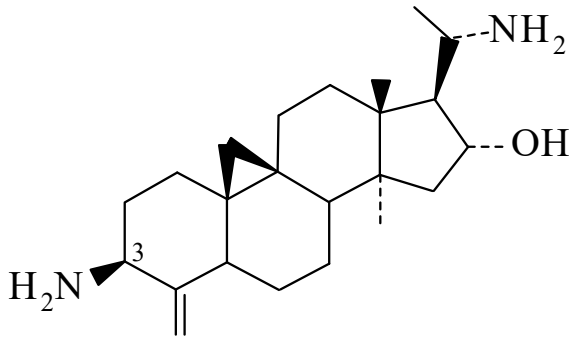
>>**Entry Name: Cyclobuxine I**
Synonym(s): 3,20-Diamino-4-methylene-14-methyl-9,19-cyclopregnan-16-ol, 9CI



Molecular Formula: $C_{23}H_{38}N_2O$
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: $C_{25}H_{42}N_2O$
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: $[\alpha]_D^{23}$+98 ($CHCl_3$)
Hazard & Toxicity: LD_{50} (mus, scu) 300 mg/kg ; BERDY HAZD : LD_{50} (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: $[\alpha]_D^{24}$+10 ($CHCl_3$)

>>**Derivative:** N^3,N^{20}-Di-Me, 3-epimer
Synonym(s): Pseudocyclobuxine D

CAS Registry Number: 54357-48-1

Molecular Formula: $C_{25}H_{42}N_2O$
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: $[\alpha]_D$ +89.6 ($CHCl_3$)

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