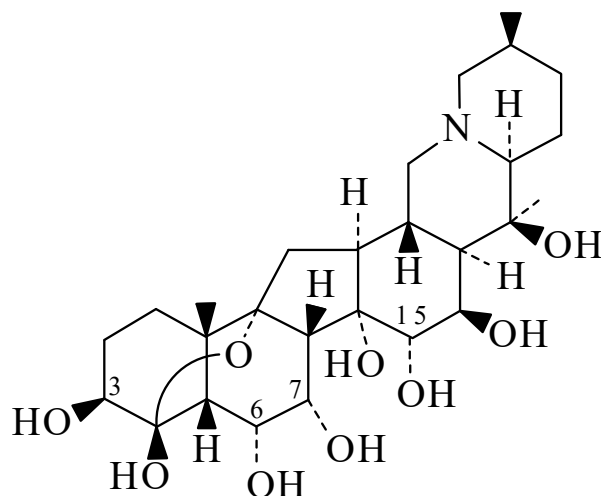




>>Entry Name: Protoverine

Synonym(s): 4,9-Epoxycevine-3,4,6,7,14,15,16,20-octol, 9Cl. 6 α -Hydroxygermine



Absolute
configuration

CAS Registry Number: 76-45-9

Molecular Formula: C₂₇H₄₃NO₉

Molecular Weight: 525.638

Accurate Mass: 525.293784

Percentage Composition: C 61.70%; H 8.25%; N 2.66%; O 27.39%

Source/Synthesis: Hydrol. prod. of Protoveratrines and other ester alkaloids

Use/Importance: Veratrum extracts have been used medicinally to reduce blood pressure

Melting Point: Mp 210-216 dec.°

Optical Rotation: $[\alpha]_D^{25}$ -12 (c, 0.96 in Py)

Calculated Log P Data: Log P -4.7 (uncertain value) (calc)

Hazard & Toxicity: LD₅₀ (mus, scu) 520 mg/kg

>>Derivative: 14,15-Acetonide

Melting Point: Mp 253-256°

>>Derivative: O⁶,O⁷-Di-Ac, O¹⁵-(R)-2-methylbutanoyl, O³-(+)-2-hydroxy-2-methylbutanoyl

Synonym(s): Protoveratrine A. Protoveratrine. Pro-Amid. Protalba. Puroverin

CAS Registry Number: 143-57-7

Molecular Formula: C₄₁H₆₃NO₁₄

Molecular Weight: 793.947

Accurate Mass: 793.424859

Percentage Composition: C 62.03%; H 8.00%; N 1.76%; O 28.21%

Biological Source: Alkaloid from *Veratrum album*, *Veratrum viride* and *Veratrum nigrum* (Liliaceae)

Use/Importance: Strong antihypertensive agent showing high toxicity in use due to powerful emetic action

Melting Point: Mp 270-271°

Optical Rotation: $[\alpha]_D$ -40 (Py)

Calculated Log P Data: Log P 0.59 (uncertain value) (calc)

Other Data: Also used as mixt. with Protoveratrine B (Ebrantan, Provell, Tensatrin, Veralba, PVS 295)

Hazard & Toxicity: LD₅₀ (rat, orl) 5 mg/kg. Very toxic if swallowed

Rare Chemicals Library: S42762-4

Sigma: P6385