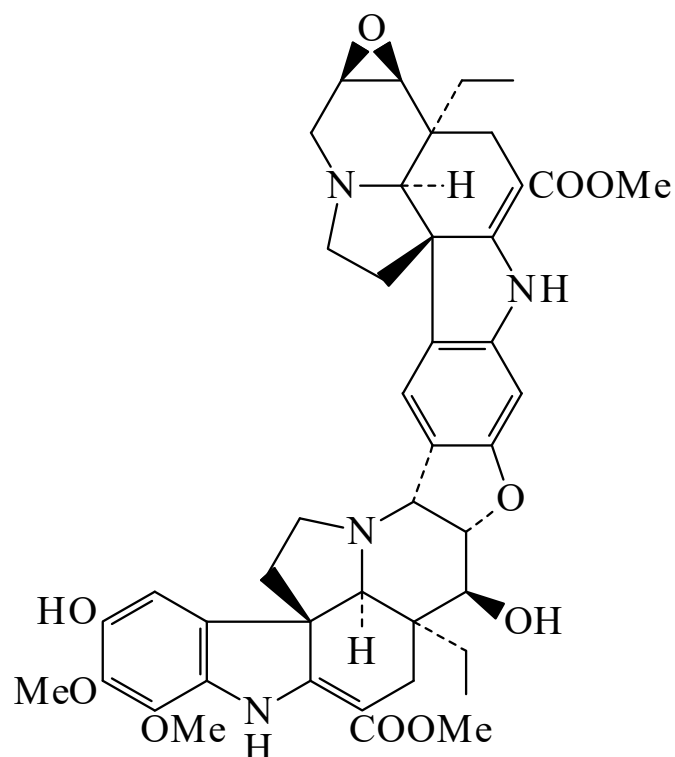




>>Entry Name: Conophylline

Synonym(s): Polyervine



CAS Registry Number: 142741-24-0

Molecular Formula: $C_{44}H_{50}N_4O_{10}$

Molecular Weight: 794.9

Accurate Mass: 794.352696

Percentage Composition: C 66.48%; H 6.34%; N 7.05%; O 20.13%

General Statement: Conophylline and Polyervine have not been compared but are prob. identical

Biological Source: Alkaloid from the leaves of *Tabernaemontana divaricata* (single flower variety) and twigs and leaves of *Tabernaemontana glandulosa* (Apocynaceae).

Also isol. as Polyervine from leaves of *Ervatamia polyneura*

Physical Description: Light yellow prisms (EtOAc)

Melting Point: Mp 181-184°. Mp ca. 200 dec°

Optical Rotation: $[\alpha]_D -133$ (c, 0.7 in $CHCl_3$)

>>Derivative: 14',15'-Deepoxy, 14',15'-didehydro

Synonym(s): Conophyllidine

CAS Registry Number: 152406-44-5

Molecular Formula: $C_{44}H_{50}N_4O_9$

Molecular Weight: 778.9

Accurate Mass: 778.357781

Percentage Composition: C 67.85%; H 6.47%; N 7.19%; O 18.49%

Biological Source: Alkaloid from *Tabernaemontana divaricata* (single flower variety) (Apocynaceae)

Physical Description: Amorph.

Hazard & Toxicity: BERDY HAZD : LD₅₀ (mus, ipr) 32.3 mg/kg

References:

Kam, T.-S. *et al.*, *J. Nat. Prod.*, 1993, **56**, 1865, (isol, uv, pmr, cmr, cryst struct)

Achenbach, H. *et al.*, *Phytochemistry*, 1994, **37**, 1737, (isol, ir, cd)

Clivio, P. *et al.*, *Phytochemistry*, 1995, **40**, 953, (Polyervine)