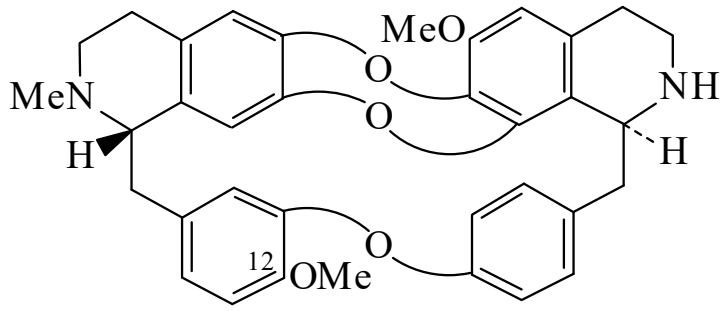
>>**Entry Name: Trilobine**



CAS Registry Number: 6138-73-4

Molecular Formula: $C_{35}H_{34}N_2O_5$
Molecular Weight: 562.664
Accurate Mass: 562.246773
Percentage Composition: C 74.71%; H 6.09%; N 4.98%; O 14.22%
Biological Source: Alkaloid from the stems of *Anisocycla grandidieri*, the roots of *Pachygone ovata* and *Cocculus sarmentosus*, the stems and roots of *Cocculus hirsutus*, the bark and trunk of *Cocculus laurifolius*, and from *Cocculus trilobus* (all parts of the plant) (Menispermaceae)
Use/Importance: Convulsive agent. Shows *in vitro* antitumour activity against HeLa-S_3 cells
Physical Description: Cryst. (Me_2CO)
Melting Point: Mp 235-239°
Optical Rotation: $[\alpha]_D^{20}$+305 (c, 1.26 in $CHCl_3$)
Hazard & Toxicity: LD_{50} 500 mg/kg

>>**Derivative:** *N*-Me

>>**Derivative:** *N*-De-Me
Synonym(s): Nortrilobine

CAS Registry Number: 91897-39-1

Molecular Formula: $C_{34}H_{32}N_2O_5$
Molecular Weight: 548.637
Accurate Mass: 548.231123
Percentage Composition: C 74.43%; H 5.88%; N 5.11%; O 14.58%
Biological Source: Alkaloid from the roots of *Pachygone ovata* (Menispermaceae)
Physical Description: Powder (MeOH)
Melting Point: Mp 177-180°
Optical Rotation: $[\alpha]_D^{25}$+216 (c, 0.44 in $CHCl_3$)

References:

Kondo, H. *et al.*, *Yakugaku Zasshi*, 1926, **532**, 465; 1927, **542**, 265; *CA*, **21**, 2699, *(isol, struct)*
Tomita, M. *et al.*, *Pharm. Bull.*, 1953, **1**, 1, *(isol)*
Tomita, M. *et al.*, *Yakugaku Zasshi*, 1963, **83**, 190; *CA*, **59**, 3971h, *(isol)*
Inubushi, Y. *et al.*, *Yakugaku Zasshi*, 1963, **83**, 288; *CA*, **59**, 5212h, *(struct)*
Baldas, J. *et al.*, *J.C.S. Perkin 1*, 1972, 592, *(ms)*
Bick, I.R.C. *et al.*, *J.C.S. Perkin 1*, 1972, 2884, *(pmr)*
Tripathi, V.J. *et al.*, *Indian J. Chem., Sect. B*, 1976, **14**, 62, *(isol, uv, pmr, ms)*
Inubushi, Y. *et al.*, *Chem. Pharm. Bull.*, 1977, **25**, 1636, *(synth, pmr)*
Dasgupta, S. *et al.*, *J. Nat. Prod.*, 1979, **42**, 399, *(isol, uv, ir, pmr, ms)*
El-Kawi, M.A. *et al.*, *J. Nat. Prod.*, 1984, **47**, 459, *(Nortrilobine)*