



Accurate Mass: 596.288638

Percentage Composition: C 72.46%; H 6.76%; N 4.69%; O 16.09%

Biological Source: Alkaloid from rhizomes of *Menispermum dauricum* (Menispermaceae)

Use/Importance: Muscle relaxant

Physical Description: Amorph. powder

Optical Rotation: $[\alpha]_{\text{D}}^{20} -105$ (MeOH)

>> **Derivative:** O^6 -De-Me, O^7 -Me

Synonym(s): Daurinoline

CAS Registry Number: 2831-75-6

Molecular Formula: $\text{C}_{37}\text{H}_{42}\text{N}_2\text{O}_6$

Molecular Weight: 610.749

Accurate Mass: 610.304288

Percentage Composition: C 72.76%; H 6.93%; N 4.59%; O 15.72%

Biological Source: Alkaloid from the rhizomes of *Menispermum canadense* and *Menispermum dauricum* (Menispermaceae)

Use/Importance: Muscle relaxant

Melting Point: Mp 95-98°

Optical Rotation: $[\alpha]_{\text{D}}^{27} -114$ (MeOH)

UV: [neutral] λ_{max} 210 (ϵ 26400); 285 (ϵ 6750) (MeOH) (Berdy)

References:

- Tomita, M. *et al.*, *Yakugaku Zasshi*, 1965, **85**, 456; 1970, **90**, 1178; 1182, (*Daurinoline*, *Dauricoline*, *Dauricinoline*)
Dorskotch, R.W. *et al.*, *J. Nat. Prod.*, 1971, **34**, 292, (*isol*, *uv*, *pmr*, *Daurinoline*)
Baldas, J. *et al.*, *J.C.S. Perkin I*, 1972, 592, (*ms*)
Zheng, X.-W. *et al.*, *Kexue Tongbao (Chin. edn.)*, 1979, **24**, 285; *CA*, **91**, 27216r, (*isol*, *uv*, *ir*, *pmr*, *ms*, *struct*)
Cortes, D. *et al.*, *J. Nat. Prod.*, 1987, **50**, 910, (*Pampulhamine*, *Geraldoamine*)
Duté, P. *et al.*, *Phytochemistry*, 1987, **26**, 2136, (*Nordaurisoline*)
Kong, R. *et al.*, *Chin. J. Chem.*, 1991, **9**, 275; *CA*, **117**, 48977k, (*abs config*)