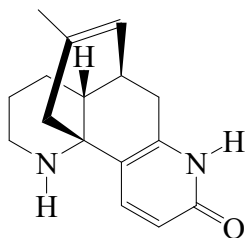




>>Entry Name: Huperzine B

Synonym(s): 8,15-Didehydro-1(18*H*)-lycodinone, 9Cl. Fordimine



Absolute
Configuration

CAS Registry Number: 103548-82-9

Molecular Formula: C₁₆H₂₀N₂O

Molecular Weight: 256.347

Accurate Mass: 256.157563

Percentage Composition: C 74.97%; H 7.86%; N 10.93%; O 6.24%

Biological Source: Alkaloid from *Lycopodium serratum* (Lycopodiaceae). Also isol. from *Huperzia serrata* and *Phlegmariurus fordii*

Biological Use/Importance: Exhibits marked anticholinesterase activity

Melting Point: Mp 270-271°

Optical Rotation: $[\alpha]_{\text{D}}^{25} -54.2$ (c, 0.203 in MeOH)

UV: [neutral] λ_{max} 231 (ϵ 10200); 313 (ϵ 7760) (EtOH) (Derep)

>>Derivative: N-Me

Synonym(s): N-Methylhuperzine B

CAS Registry Number: 110037-64-4

Molecular Formula: C₁₇H₂₂N₂O

Molecular Weight: 270.374

Accurate Mass: 270.173213

Percentage Composition: C 75.52%; H 8.20%; N 10.36%; O 5.92%

Biological Source: Alkaloid from *Lycopodium serratum* (*Huperzia serrata*) (Lycopodiaceae)

References:

- Liu, J.-S. *et al.*, *Can. J. Chem.*, 1986, **64**, 837, (*uv, ir, pmr, cmr, struct*)
Liu, J. *et al.*, *Huaxue Xuebao*, 1986, **44**, 1035; *CA*, **107**, 115821p, (*struct*)
Li, J. *et al.*, *Zhongcaoyao*, 1987, **18**, 50; *CA*, **107**, 93545x, (*deriv*)
Chu, B.M. *et al.*, *Yaoxue Xuebao*, 1988, **23**, 115; *CA*, **109**, 70347, (*Fordimine*)
Wu, B. *et al.*, *J.O.C.*, 1997, **62**, 5978-5981, (*synth, pmr, cmr*)