

Himgaline

Code No.: **BIA-H1747**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : (-)-Himgaline

Specifications

CAS #	: 16585-08-3
Molecular Formula	: C₂₀H₃₁NO₂
Molecular Weight	: 317.5
Source	: <i>Galbulimima</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Himgaline is a piperidine alkaloid with a complex polycyclic scaffold first isolated from *Galbulimima* sp., a magnolia native to northern Australia, and reported in 1967 by Ritchie and co-workers, University of Sydney, Australia. There are no specific reports of himgaline's biological activity, however the related himbacine and analogues inhibit muscarinic receptors with 10-fold selectivity for M2 over M1 receptors.

References

1. The chemical constituents of *Galbulimima* species. V. The isolation of further alkaloids. Binns S.V. et al., Aust. J. Chem. 1965, 18, 569.
2. The chemical constituents of *Galbulimima* species. X. The structure of himgaline. Mander L.N. et al., Aust. J. Chem. 1967, 20, 1705 – 1718.
3. Progress toward the syntheses of (+)-GB 13, (+)-himgaline, and himandridine. New insights into intramolecular imine/enamine aldol cyclizations. Evans D.A. et al., J. Am. Chem. Soc. 2012, 134, 8162.
4. Himbacine analogs as muscarinic receptor antagonists—effects of tether and heterocyclic variations. Chackalamannil S. et al., Bioorg. Med. Chem. Lett. 2004, 15, 3967.