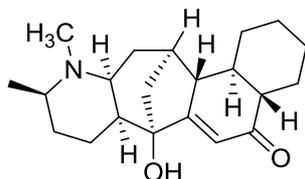


## Himbadine

Code No.: **BIA-H1745**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	: <b>24932-15-8</b>
Molecular Formula	: <b>C<sub>21</sub>H<sub>31</sub>NO<sub>2</sub></b>
Molecular Weight	: <b>329.5</b>
Source	: <b><i>Galbulimima</i> sp.</b>
Appearance	: <b>Off-white solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Himbadine is a piperidine alkaloid with a polycyclic scaffold first isolated from *Galbulimima* sp. a magnolia species native to northern Australia and South East Asia, and reported in 1967 by Ritchie and co-workers, University of Sydney, Australia. The bioactivity of himbadine has not been extensively investigated but its close structural relationship to other *Galbulimima* alkaloids suggests a possible affinity for muscarinic receptors.

## References

1. The chemical constituents of *Himantandra* species. II. The isolation of the alkaloids of *Himantandra baccata* and *Himantandra belgraveana*. Brown R.F.C. et al., *Aust. J. Chem.* 1956, 9, 283.
2. The chemical constituents of *Galbulimima* species IX. The structures of himbadine and alkaloid G.B. 13. Mander L.N. et al., *Aust. J. Chem.* 1967, 20, 1473.
3. Structures of new alkaloids from rain forest trees *Galbulimima belgraveana* and *Galbulimima baccata* in Papua New Guinea, Indonesia, and Northern Australia. Lan P. et al., *ACS Omega* 2018, 3, 1912.
4. Himbacine analogs as muscarinic receptor antagonists - effects of tether and heterocyclic variations. Chackalamanni S. et al., *Bioorg. Med. Chem. Lett.* 2004, 15, 3967.