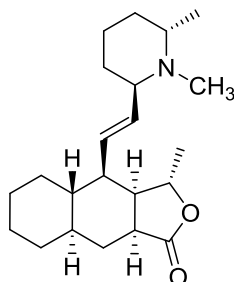


## Himbacine

Code No.: **BIA-H1744**

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



Synonyms : (+)-Himbacine, Himbacin, NSC 23969

## Specifications

CAS #	: 6879-74-9
Molecular Formula	: C <sub>22</sub> H <sub>35</sub> NO <sub>2</sub>
Molecular Weight	: 345.5
Source	: <i>Galbulimima</i> sp.
Appearance	: Beige solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

## Application Notes

Himbacine is a piperidine alkaloid with a tricyclic lactone scaffold isolated from *Galbulimima* sp. (*Himantandra* sp.) by Ritchie and Taylor, University of Sydney, Australia in 1956. Himbacine is a potent M2 muscarinic receptor antagonist with selectivity for cardiac receptors and a thrombin (PAR1) receptor inhibitor. Its analogue, vorapaxar is marketed for secondary prevention of thrombotic cardiovascular events.

## References

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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. The absolute stereochemistry of the *Galbulimima* alkaloids. Willis A.C. et al., Aust. J. Chem. 2006, 59, 629.
4. The cardio-selectivity of himbacine: a muscarine receptor antagonist. Anwar-ul S. et al., Naunyn Schmiedebergs Arch. Pharmacol. 1986, 332, 16.
5. Structure-activity relationships of some *Galbulimima* alkaloids related to himbacine. Darroch S.A. et al., Eur. J. Pharmacol. 1990, 182, 131.
6. Discovery of a novel, orally active himbacine-based thrombin receptor antagonist (SCH 530348) with potent antiplatelet activity. Chackalamanni S. et al., J. Med. Chem. 2008, 51, 3061.