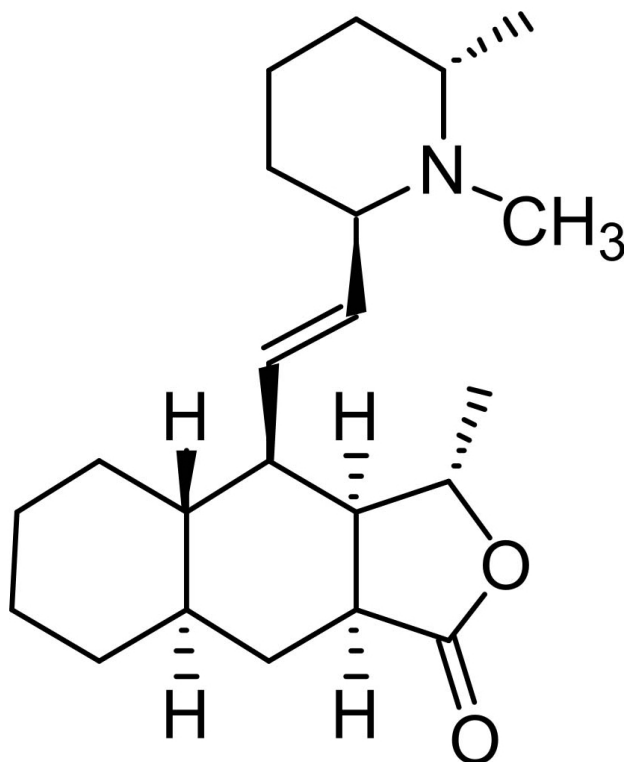


Himbacine

Code No.: BIA-H1744

Pack sizes.: 1mg, 5mg



Synonyms:

(+)-Himbacine, Himbacin, NSC 23969

Specifications

CAS #	: 6879-74-9
Molecular Formula	: C ₂₂ H ₃₅ N ₂ O
Molecular Weight	: 345.53
Source	: -
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

1. The chemical constituents of *Himantandra* species. II. The isolation of the alkaloids of *Himantandra baccata* Bail. and *H. belgraveana* F. Muell. Brown F.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. The absolute stereochemistry of the *Galbulimima* alkaloids. Willis A.C. et al., *Aust. J. Chem.* 2006, 59, 629.
4. Structure-activity relationships of some *Galbulimima* alkaloids related to himbacine. Darroch S.A. et al., *Eur. J. Pharmacol.* 1990, 182, 131.
5. Discovery of a novel, orally active himbacine-based thrombin receptor antagonist (SCH 530348) with potent antiplatelet activity. Chackalamannil S. et al., *J. Med. Chem.* 2008, 51, 3061.