

Epinastine

Chemical Properties

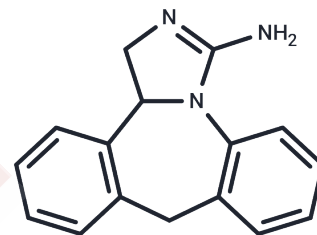
CAS No. : 80012-43-7

Formula: C₁₆H₁₅N₃

Molecular Weight: 249.31

Storage: Keep away from direct sunlight, Store under nitrogen
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Epinastine (WAL801) is a selective and orally active histamine H1 receptor antagonist primarily used for treating allergic conjunctivitis. Epinastine also inhibits the release of IL-8 from human eosinophils and acts as a mast cell stabiliser to prevent the release of histamine.
Targets(IC50)	Histamine Receptor, IL Receptor
In vitro	Methods: Epinastine (1 nM-100 μM) was used to treat isolated human skin mast cells, basophils, and eosinophils induced by different secretagogues to investigate whether it could affect the in vitro activation of these cells. Results: Epinastine (1 nmol/l to 100 μmol/l) did not significantly inhibit histamine release from basophils induced by either immune (anti-IgE, leukocyte antigen A, interleukin-3 and interleukin-5) or non-immune (A23187, ionomycin, 12-o-tetradecanoyl-phorbol-13-acetate, C5a, methylformyl-leucyl-phenylalanine) stimulation. [1]
In vivo	In receptor binding studies, Epinastine demonstrates high affinity for H1-receptors in the guinea pig ileum and effectively inhibits histamine-induced reactions in the skin and lungs of rats, dogs, and guinea pigs [1].

Solubility Information

Solubility	DMSO: ≥ 40 mg/mL, Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble) (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (8.02 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0111 mL	20.0554 mL	40.1107 mL
5 mM	0.8022 mL	4.0111 mL	8.0221 mL
10 mM	0.4011 mL	2.0055 mL	4.0111 mL
50 mM	0.0802 mL	0.4011 mL	0.8022 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Amon U, et al. In vitro investigations with the histamine H1 receptor antagonist, epinastine (WAL 801 CL), on isolated human allergic effector cells. *Inflamm Res.* 2000 Mar;49(3):112-6.

Zhang X, Zhang L, Li B, et al. Identification of Epinastine as CD96/PVR inhibitor for cancer immunotherapy. *BMC biology.* 2025, 23(1): 27.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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