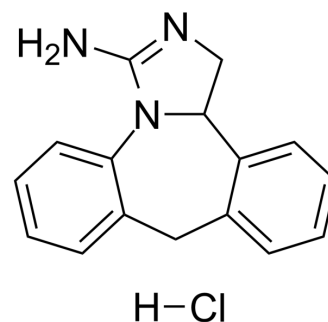


## Epinastine hydrochloride

<b>Cat. No.:</b>	HY-B0640A
<b>CAS No.:</b>	108929-04-0
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>16</sub> ClN <sub>3</sub>
<b>Molecular Weight:</b>	285.77
<b>Target:</b>	Histamine Receptor
<b>Pathway:</b>	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (349.93 mM; Need ultrasonic)  
DMSO : 50 mg/mL (174.97 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4993 mL	17.4966 mL	34.9932 mL
	5 mM	0.6999 mL	3.4993 mL	6.9986 mL
	10 mM	0.3499 mL	1.7497 mL	3.4993 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 20 mg/mL (69.99 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (7.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.28 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.28 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Epinastine hydrochloride (WAL801 hydrochloride) is an antihistamine and mast cell stabilizer. Epinastine hydrochloride is a potent, selective and orally-active histamine H1 receptor antagonist. Epinastine hydrochloride also inhibits IL-8 release and has an anti-allergic action<sup>[1][2][3]</sup>.

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## REFERENCES

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[1]. C Kamei, et al. Antiallergic effect of epinastine (WAL 801 CL) on immediate hypersensitivity reactions: (I). Elucidation of the mechanism for histamine release inhibition. Immunopharmacol Immunotoxicol. 1992;14(1-2):191-205.

[2]. T Roeder, et al. Epinastine, a highly specific antagonist of insect neuronal octopamine receptors. ur J Pharmacol. 1998 May 22;349(2-3):171-7.

[3]. T Kohyama, et al. A novel antiallergic drug epinastine inhibits IL-8 release from human eosinophils. Biochem Biophys Res Commun. 1997 Jan 3;230(1):125-8.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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