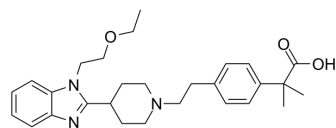


Bilastine

Cat. No.:	HY-14447		
CAS No.:	202189-78-4		
Molecular Formula:	C ₂₈ H ₃₇ N ₃ O ₃		
Molecular Weight:	463.61		
Target:	Histamine Receptor		
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 10 mg/mL (21.57 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		2.1570 mL	10.7849 mL	21.5699 mL
	5 mM		0.4314 mL	2.1570 mL	4.3140 mL
	10 mM		0.2157 mL	1.0785 mL	2.1570 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2 mg/mL (4.31 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2 mg/mL (4.31 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (4.31 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Bilastine is a selective histamine H1 receptor antagonist used for treatment of allergic rhinoconjunctivitis and urticaria. Target: Histamine H1 Receptor Bilastine binds to histamine H1-receptors as indicated by its displacement of [3H]-pyrilamine from H1-receptors expressed in guinea-pig cerebellum and human embryonic kidney (HEK) cell lines. The studies conducted on guinea-pig smooth muscle demonstrated the capability of bilastine to antagonise H1-receptors. Bilastine is selective for histamine H1-receptors as shown in receptor-binding screening conducted to determine the binding capacity of bilastine to 30 different receptors [1]. Bilastine distribution has an apparent volume of distribution of 1.29 L/kg, and has an elimination half-life of 14.5 h and plasma protein binding of 84-90% [2].

REFERENCES

- [1]. Corcostegui, R., et al., Preclinical pharmacology of bilastine, a new selective histamine H1 receptor antagonist: receptor selectivity and in vitro antihistaminic activity. *Drugs R D*, 2005. 6(6): p. 371-84.
- [2]. Jauregizar, N., et al., Pharmacokinetic-pharmacodynamic modelling of the antihistaminic (H1) effect of bilastine. *Clin Pharmacokinet*, 2009. 48(8): p. 543-54.
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Caution: Product has not been fully validated for medical applications. For research use only.

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