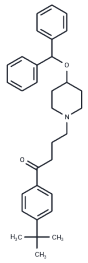
Data Sheet (Cat.No.T2335)

TargetMol

Ebastine

Chemical Properties



CAS No. : 90729-43-4

Formula: C32H39NO2

Molecular Weight: 469.66

Storage: 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	Ebastine (Kestine) (trade names Evastin, Kestine, Ebastel, Aleva) is a non-sedating H1 antihistamine. It does not penetrate the blood-brain barrier and thus allows an effective block of the H1 receptor in peripheral tissue without a central side effect, i. e not causing sedation or drowsiness.
Targets(IC50)	Histamine Receptor
In vivo	Compared to H2 receptors, Ebastine showed selectivity for histamine H1, moderate activity against other potential mediators of allergic phenomena such as leukotriene C4 and platelet-activating factor, and was apparently effective in targeting allergic reaction antigens induced by exposure of appropriately sensitized tissues or animals to allergies.Ebastine inhibited, in human nasal polyp cells, anti-IgE-induced prostaglandin D2 and leukotriene C4/D4 with IC30 of 2.57 μM and 9.6 μM, respectively, and inhibited cytokine release.Ebastine also inhibited hERG-expressing IKr in African Xenopus oocytes with a Kd value of 0.3 μM, with a maximal inhibition of 46% at 3 μM.Ebastine exerted a small effect on transient potassium currents in rats at a concentration of less than 100 nM. Ebastine had a small effect on the transient potassium current in rats at concentrations less than 100 nM.

Solubility Information

Solubility	DMSO: 29.1 mg/mL (61.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2.91 mg/mL (6.2 mM),Suspension. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1292 mL	10.646 mL	21.292 mL
5 mM	0.4258 mL	2.1292 mL	4.2584 mL
10 mM	0.2129 mL	1.0646 mL	2.1292 mL
50 mM	0.0426 mL	0.2129 mL	0.4258 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

Ko CM, et al. J Pharmacol Exp Ther, 1997, 281(1), 233-244.
Campbell A, et al. Drugs, 1996, 52, Suppl 1, 15-19.
Roberts DJ, et al. Drugs, 1996, 52, Suppl 1, 8-14.