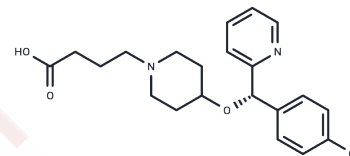


## Bepotastine

## Chemical Properties

CAS No. :	125602-71-3
Formula:	C <sub>21</sub> H <sub>25</sub> ClN <sub>2</sub> O <sub>3</sub>
Molecular Weight:	388.89
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	Bepotastine (Bepotastine free base) free base is a histamine 1 (H1) receptor antagonist.
Targets(IC50)	Histamine Receptor
In vivo	bepotastine can suppress allergy-related symptoms in subjects with seasonal allergic rhinitis caused by Japanese cedar pollen or cypress pollen[1].

## Solubility Information

Solubility	DMSO: 250 mg/mL (642.86 mM),Sonication is recommended. (< 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 (5.14 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

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	1mg	5mg	10mg
1 mM	2.5714 mL	12.8571 mL	25.7142 mL
5 mM	0.5143 mL	2.5714 mL	5.1428 mL
10 mM	0.2571 mL	1.2857 mL	2.5714 mL
50 mM	0.0514 mL	0.2571 mL	0.5143 mL

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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

Kanzaki S , Hashiguchi K , Wakabayashi K I , et al. Histamine antagonist Bepotastine suppresses nasal symptoms caused by Japanese cedar and cypress pollen exposure[J]. journal of drug assessment, 2016, 5(1):15-23.  
Cao L, She Z, Zhao Y, et al. Inhibition of RAN Attenuates Influenza A Virus Replication and Nucleoprotein Nuclear Export. Emerging Microbes & Infections. 2024 (just-accepted): 2387910.

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