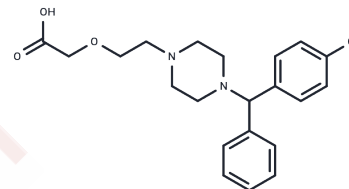


Cetirizine

Chemical Properties

CAS No. :	83881-51-0
Formula:	C ₂₁ H ₂₅ ClN ₂ O ₃
Molecular Weight:	388.89
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Cetirizine is a second-generation selective H ₁ -histamine receptor antagonist with antiallergic effects that inhibits eosinophil chemotaxis during allergic reactions. Cetirizine has minimal central nervous system depressant effects.
Targets(IC ₅₀)	Histamine Receptor
In vivo	Cetirizine (20 mg/kg, given orally to mice) exerts its anti-inflammatory effect in mice immunized with ragweed pollen and re-stimulated by inhibiting the production of MIF and IL-8 [3].

Solubility Information

Solubility	DMSO: 175.00 mg/mL (450.00 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	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

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

Caroline M. Spencer, et al. Cetirizine. *Drugs* 46 (6): 1055-1080, 1993.

Shih MY, et al. Influence of cetirizine and levocetirizine on two cytokines secretion in human airway epithelial cells. *Allergy Asthma Proc.* 2008 Sep-Oct;29(5):480-5.

Shimizu T, et al. Cetirizine, an H1-receptor antagonist, suppresses the expression of macrophage migration inhibitory factor: its potential anti-inflammatory action. *Clin Exp Allergy.* 2004 Jan;34(1):103-9.

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