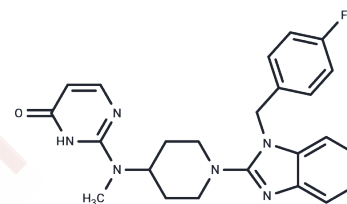


Mizolastine

Chemical Properties

CAS No. :	108612-45-9
Formula:	C ₂₄ H ₂₅ N ₆ O
Molecular Weight:	432.49
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	Mizolastine (SL 850324) (IC ₅₀ = 47 nM) is a histamine H ₁ -receptor antagonist. It is used in the treatment of allergic reactions such as hay fever (seasonal allergic rhinitis), hives.
Targets(IC ₅₀)	Histamine Receptor
Kinase Assay	Assay for cytokines: The cultures for cytokine production are set up at 37 °C as follows: the mixtures of SN-4 and autologous APC (each 1 × 10 ⁵ cells/well) are cultured for 3 days with 50 µg/mL of Cry j1 in a total volume of 0.2 mL in round-bottomed micro plates; PBMC (2 × 10 ⁵ cells/well) from normal donors are cultured for 24 hours with 10 µg/ml of PHA in a total volume of 0.2 mL in flat-bottomed, 96-well micro plates; and purified T cells (1 × 10 ⁵ cells/well) from normal donors are cultured in a total volume of 1 ml for 24 hours with anti-CD3 mAb that have been immobilized on flat-bottomed, 24-well plates at a concentration of 5 µg/ml. Cytokines in the culture supernatants are quantitatively assayed by the following commercially available kits: IL-4 and IFN-γ. The sensitivity of the assay is 30 pg/mL for IL-4 and 1 U/mL for IFN-γ.

Solubility Information

Solubility	DMSO: 12 mg/mL (27.75 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 (4.62 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

	1mg	5mg	10mg
1 mM	2.3122 mL	11.561 mL	23.1219 mL
5 mM	0.4624 mL	2.3122 mL	4.6244 mL
10 mM	0.2312 mL	1.1561 mL	2.3122 mL
50 mM	0.0462 mL	0.2312 mL	0.4624 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

Brostoff J, et al. Allergy. 1996 May; 51(5):320-5.

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