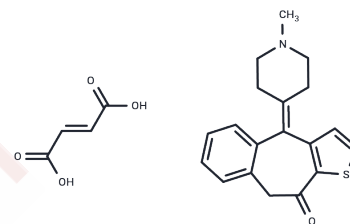


Ketotifen fumarate

Chemical Properties

CAS No. :	34580-14-8
Formula:	C ₂₃ H ₂₃ N ₀ S ₅
Molecular Weight:	425.50
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	Ketotifen fumarate (HC 20511 fumarate) is a cycloheptathiophene blocker of histamine H1 receptors and release of inflammatory mediators.
Targets(IC50)	Endogenous Metabolite,Histamine Receptor,Influenza Virus,PDE,SARS-CoV

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 142.8 mg/mL (335.61 mM),Sonication is recommended. H2O: 10.7 mg/mL (25.15 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 (4.7 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	2.3502 mL	11.7509 mL	23.5018 mL
5 mM	0.470 mL	2.3502 mL	4.7004 mL
10 mM	0.235 mL	1.1751 mL	2.3502 mL
50 mM	0.047 mL	0.235 mL	0.470 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

Mita H, Shida T. Arzneimittelforschung. 1995 Jan;45(1):36-40.

Wang B, Li X, Li M, et al. Dopamine D3 receptor signaling alleviates mouse rheumatoid arthritis by promoting Toll-like receptor 4 degradation in mast cells. Cell Death & Disease. 2022, 13(3): 1-11.

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