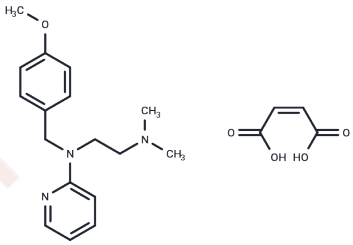
Data Sheet (Cat.No.T1232)

TargetMol

Mepyramine maleate

Chemical Properties



CAS No. : 59-33-6

Formula: C21H27N3O5

Molecular Weight: 401.47

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	Mepyramine maleate (Pyrilamine maleate) is a histamine H1 antagonist. It has mild hypnotic properties and some local anesthetic action and is used for allergies (including skin eruptions) both parenterally and locally. It is a common ingredient of cold remedies.
Targets(IC50)	Histamine Receptor

Solubility Information

Solubility	DMSO: 250 mg/mL (622.71 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 (4.98 mM),Sonication is recommended. *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	2.4908 mL	12.4542 mL	24.9085 mL
5 mM	0.4982 mL	2.4908 mL	4.9817 mL
10 mM	0.2491 mL	1.2454 mL	2.4908 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 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

Moriyama K, et al. Inflamm Res. 2009 Dec;58(12):873-80.
Wang D, Guo Q, Wu Z, et al.Molecular mechanism of antihistamines recognition and regulation of the histamine H1 receptor.Nature Communications.2024, 15(1): 84.
Molecular mechanism of antihistamines recognition and regulation of the histamine H1 receptor

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