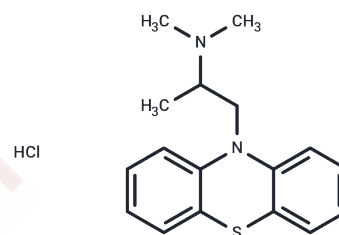


Promethazine hydrochloride

Chemical Properties

CAS No. :	58-33-3
Formula:	C ₁₇ H ₂₀ N ₂ S·HCl
Molecular Weight:	320.88
Storage:	Powder: -20°C for 3 years Actual storage temperature shall be subject to the COA.



Biological Description

Description	Promethazine hydrochloride (Promethazine HCl), the first-generation antihistamine, is a strong antagonist of the H ₁ receptor and a moderate antagonist of the mACh receptor, moderate affinity for 5-HT _{2A} , 5-HT _{2C} , D ₂ and α ₁ -adrenergic receptors.
Targets(IC ₅₀)	Adrenergic Receptor, AChR, Histamine Receptor

Solubility Information

Solubility	DMSO: 55 mg/mL (171.4 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 (6.23 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	3.1164 mL	15.5821 mL	31.1643 mL
5 mM	0.6233 mL	3.1164 mL	6.2329 mL
10 mM	0.3116 mL	1.5582 mL	3.1164 mL
50 mM	0.0623 mL	0.3116 mL	0.6233 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

Smith BN, Armstrong WE. Neuroscience. 1993 Apr;53(3):855-64.

Chen J, Liu G, Wang X, et al. Glioblastoma stem cell-specific histamine secretion drives pro-angiogenic tumor microenvironment remodeling. Cell Stem Cell. 2022

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