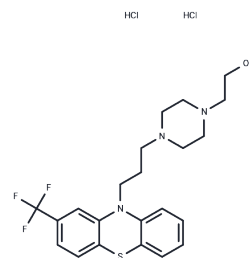


Fluphenazine dihydrochloride

Chemical Properties

CAS No. :	146-56-5
Formula:	C ₂₂ H ₂₈ Cl ₂ F ₃ N ₃ O ₅
Molecular Weight:	510.44
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	Fluphenazine dihydrochloride (Prolixin) is an inhibitor of phenothiazine-class D1DR and D2DR; In studies, Fluphenazine can be used to probe the effects and metabolic process of this commonly used dopamine antagonist.
Targets(IC50)	Dopamine Receptor,SARS-CoV,Sodium Channel

Solubility Information

Solubility	DMSO: 250 mg/mL (489.77 mM),Sonication is recommended. Ethanol: 28 mg/mL (54.85 mM),Sonication is recommended. H ₂ O: 92 mg/mL (180.24 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 (3.92 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	1.9591 mL	9.7955 mL	19.5909 mL
5 mM	0.3918 mL	1.9591 mL	3.9182 mL
10 mM	0.1959 mL	0.9795 mL	1.9591 mL
50 mM	0.0392 mL	0.1959 mL	0.3918 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

Qin ZH, Weiss B. Eur J Pharmacol. 1994 Sep 15;269(1):25-33.

Su C, Cheng C, Rong Z, et al. Repurposing fluphenazine as an autophagy modulator for treating liver cancer. Heliyon. 2023

Zhang X, Shi X, Zhang X, et al. Repositioning fluphenazine as a cuproptosis-dependent anti-breast cancer drug candidate based on TCGA database. Biomedicine & Pharmacotherapy. 2024, 178: 117293.

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