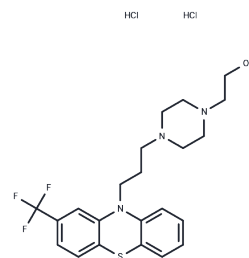


Fluphenazine dihydrochloride

Chemical Properties

CAS No. :	146-56-5
Formula:	C ₂₂ H ₂₈ Cl ₂ F ₃ N ₃ O ₃
Molecular Weight:	510.44
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



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

Solubility Information

Solubility	DMSO: 55 mg/mL (107.75 mM),Sonication is recommended. Ethanol: 28 mg/mL (54.85 mM),Sonication is recommended. H2O: 92 mg/mL (180.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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