



LKT Laboratories, Inc.

Fluphenazine Hydrochloride

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Product Information

Product ID F4584
CAS No. 146-56-5
Chemical Name 1-Piperazineethanol, 4-(3-(2-(trifluoromethyl)phenothiazin-10-yl)propyl)-

Synonym Dapotum, Elinol, Fluorfenazine, Fluorophenazine, Pacinol, Moditen.

Formula $C_{22}H_{26}F_3N_3OS \cdot 2HCl$

Formula Wt. 510.44

Melting Point

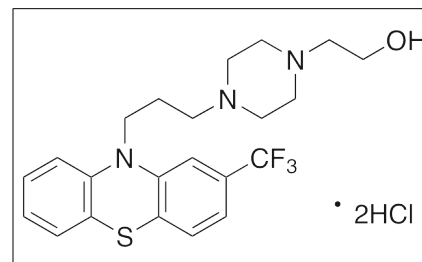
Purity $\geq 97\%$

Solubility Soluble in water (>100 mg/L), ethanol (149 mg/mL)

Store Temp Ambient

Ship Temp Ambient

Description Fluphenazine is a typical piperazine antipsychotic that is clinically used to treat schizophrenia, bipolar disorder, and dementia. Fluphenazine acts as an antagonist at D2 receptors. Fluphenazine also exhibits arrhythmogenic activity, increasing action potential duration and inducing QT prolongation by decreasing current amplitude of human ether-related-a-go-go (hERG) K⁺ channels. This compound acts as a functional inhibitor of acid sphingomyelinase (FIASMA).



Bulk quantities available upon request

Product ID	Size
F4584	1 g
F4584	5 g
F4584	25 g

References Hong HK, Lee BH, Park MH, et al. Block of hERG K⁺ channel and prolongation of action potential duration by fluphenazine at submicromolar concentration. *Eur J Pharmacol.* 2013 Feb 28;702(1-3):165-73. PMID: 23395964.

Pickar D, Owen RR, Litman RE, et al. Clinical and biologic response to clozapine in patients with schizophrenia. Crossover comparison with fluphenazine. *Arch Gen Psychiatry.* 1992 May;49(5):345-53. PMID: 1375019.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.