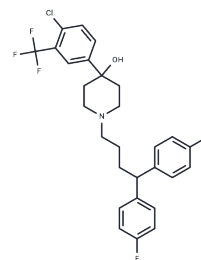


Penfluridol

Chemical Properties

CAS No. :	26864-56-2
Formula:	C ₂₈ H ₂₇ ClF ₅ NO
Molecular Weight:	523.97
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	Penfluridol (TLP-607) is a highly potent antipsychotic.
Targets(IC50)	Apoptosis, Calcium Channel, Autophagy, Dopamine Receptor
In vivo	Penfluridol inhibits the binding of dopamine to its receptors with a K_i value of 1.6 μ M. At a concentration of 10 μ M, Penfluridol suppresses the contractile response of isolated rabbit thoracic aortic rings to NE and KCl, as well as the calcium influx stimulated by NE or KCl. Additionally, Penfluridol selectively inhibits the binding of [³ H]Nitrendipine to rat cerebral cortex membranes and competitively antagonizes potassium-induced, calcium-dependent contractions in the rat vas deferens.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 93 mg/mL (177.49 mM), Sonication is recommended. DMSO: 250 mg/mL (477.13 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: 3.3 mg/mL (6.3 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	1.9085 mL	9.5425 mL	19.0851 mL
5 mM	0.3817 mL	1.9085 mL	3.817 mL
10 mM	0.1909 mL	0.9543 mL	1.9085 mL
50 mM	0.0382 mL	0.1909 mL	0.3817 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

Creese I, et al. Science, 1976 , 192(4238), 481-483.

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

Flaim SF, et al. Proc Natl Acad Sci U S A, 1985, 82(4), 1237-1241.

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