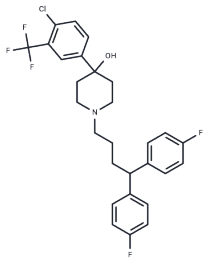
Data Sheet (Cat.No.T1105)

TargetMol
YOUR TARGET MOLECULES

Penfluridol

Chemical Properties



CAS No. : 26864-56-2

Formula: C28H27ClF5NO

Molecular Weight: 523.97

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Penfluridol (TLP-607) is a highly potent antipsychotic.
Targets(IC50)	Calcium Channel,Dopamine Receptor,Autophagy
In vivo	Penfluridol inhibits the binding of dopamine to its receptors with a Ki value of 1.6 μM. At a concentration of 10 μM, 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 [3H]Nitrendipine to rat cerebral cortex membranes and competitively antagonizes potassium-induced, calcium-dependent contractions in the rat vas deferens.

Solubility Information

Solubility	H2O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 93 mg/mL (177.5 mM), DMSO: 93 mg/mL (177.5 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

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

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