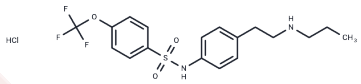
Data Sheet (Cat.No.T12510)

TargetMol

PNU-177864 hydrochloride

Chemical Properties



CAS No. : 1783978-03-9

Formula: C18H22ClF3N2O3S

Molecular Weight: 438.89

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	PNU-177864 hydrochloride is a potent, selective, and orally active dopamine D3 receptor antagonist that is structurally consistent with a cationic amphiphilic drug (CAD). It induces phospholipidosis in vivo and exhibits antischizophrenic activity.
Targets(IC50)	CCR,Dopamine Receptor
In vivo	In Sprague-Dawley rats, PNU-177864 hydrochloride (8-200 mg/kg; gavage) induces phospholipidosis in unusual target organs including epididymis, hair follicles and pituitary[1].

Solubility Information

Solubility	DMSO: 50 mg/mL (113.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2785 mL	11.3924 mL	22.7848 mL
5 mM	0.4557 mL	2.2785 mL	4.557 mL
10 mM	0.2278 mL	1.1392 mL	2.2785 mL
50 mM	0.0456 mL	0.2278 mL	0.4557 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

Rudmann DG, et al. Epididymal and systemic phospholipidosis in rats and dogs treated with the dopamine D3 selective antagonist PNU-177864. Toxicol Pathol. 2004 May-Jun;32(3):326-32.
Vonderfecht SL, et al. Myopathy related to administration of a cationic amphiphilic drug and the use of multidose drug distribution analysis to predict its occurrence. Toxicol Pathol. 2004 May-Jun;32(3):318-25.

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