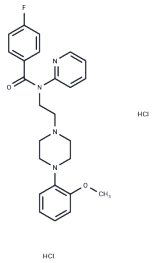
Data Sheet (Cat.No.T69750)

TargetMol

p-MPPF dihydrochloride

Chemical Properties



CAS No. : 223699-41-0

Formula: C25H29Cl2FN4O2

Molecular Weight: 507.43

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	p-MPPF dihydrochloride is a selective 5-HT antagonist that dose-dependently antagonizes hypothermia induced by 8-hydroxy-2-(di-n-propylamino)tetralin (8-OH-DPAT) and can be used to study neurological diseases.
Targets(IC50)	5-HT Receptor,PERK
In vitro	The 5-HT(1A) receptor agonist 8-hydroxy-N,N-dipropionylaminotetralin (8-OH-DPAT) dose- and time-dependently reduced the basal levels of phosphorylated Erk1/2 (phospho-Erk1/2) in the rat hippocampus without changing total Erk/2, and pretreatment with p-MPPF dihydrochloride blocked the effects of 8-OH-DPAT. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9707 mL	9.8536 mL	19.7072 mL
5 mM	0.3941 mL	1.9707 mL	3.9414 mL
10 mM	0.1971 mL	0.9854 mL	1.9707 mL
50 mM	0.0394 mL	0.1971 mL	0.3941 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

Chen J, et al. 5-HT1A receptor-mediated regulation of mitogen-activated protein kinase phosphorylation in rat brain. Eur J Pharmacol. 2002 Oct 4;452(2):155-62.

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