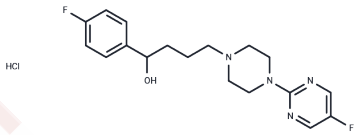
Data Sheet (Cat.No.T22612)

TargetMol

BMY-14802 hydrochloride

Chemical Properties



CAS No. :	105565-55-7
Formula:	C18H23ClF2N4O
Molecular Weight:	384.85
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	BMY-14802 hydrochloride (BMS 181100 hydrochloride) is a selective antagonist of σ receptor (IC50 = 112 nM) with antipsychotic effects. BMY-14802 hydrochloride is an agonist of the α1-adrenergic receptor and 5-HT1A.
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Sigma receptor
In vitro	BMY-14802 hydrochloride shows effects on the firing of 5-HTergic and catecholaminergic neurons and affects behaviors in a 5-HT1A-sensitive manner[3].
In vivo	Intraperitoneal administration of BMY-14802 hydrochloride (5-20 mg/kg) shows anti-dyskinetic efficacy across a 4-fold dose range against L-DOPA-induced dyskinesias without affecting the efficacy of L-DOPA against lesion-induced akinesia. BMY-14802 hydrochloride reduces D1 and D2 receptor agonist-induced dyskinesias[2].

Solubility Information

Solubility	H2O: 9 mg/mL (23.39 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: 2 mg/mL (5.2 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5984 mL	12.9921 mL	25.9841 mL
5 mM	0.5197 mL	2.5984 mL	5.1968 mL
10 mM	0.2598 mL	1.2992 mL	2.5984 mL
50 mM	0.052 mL	0.2598 mL	0.5197 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

Li M, Hener P, Zhang Z, et al. Topical vitamin D3 and low-calcemic analogs induce thymic stromal lymphopoietin in mouse keratinocytes and trigger an atopic dermatitis. Proceedings of the National Academy of Sciences of the United States of America. 2006;103(31):11736-11741.

Galdones E, Hales BF. Retinoic acid receptor gamma-induced misregulation of chondrogenesis in the murine limb bud in vitro. Toxicological sciences : an official journal of the Society of Toxicology. 2008;106(1):223-232.

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