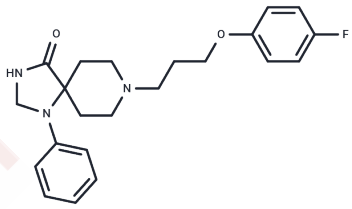
Data Sheet (Cat.No.T21855)

TargetMol

AMI-193

Chemical Properties



CAS No. : 510-74-7

Formula: C22H26FN3O2

Molecular Weight: 383.46

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	AMI-193 (Spiramide) is an effective and selective antagonist of 5-HT2 and D2 receptor with Kis of 2, 3, 50, 2530, and 4300 nM for 5-HT2, D2 Receptor, 5-HT1A, D1 Receptor, and 5-HT1C Receptor. AMI-193 shows antipsychotic activity.
Targets(IC50)	5-HT Receptor,Dopamine Receptor
In vivo	In adult male squirrel monkeys, AMI-193 (0.003 and 0.01 mg/kg; i.m.) decreases the response rate under a fixed-interval (FI) schedule of stimulus termination in a dose-dependent manner and under a second-order schedule of i.v. self-administration of cocaine (0.1 mg/infusion). AMI-193 (0.003 and 0.01 mg/kg; i.m.) attenuates the discriminative-stimulus effects of cocaine[2].

Solubility Information

Solubility	DMSO: 20.7 mg/mL (53.98 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 (5.22 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	2.6078 mL	13.0392 mL	26.0783 mL
5 mM	0.5216 mL	2.6078 mL	5.2157 mL
10 mM	0.2608 mL	1.3039 mL	2.6078 mL
50 mM	0.0522 mL	0.2608 mL	0.5216 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

Kjellberg B, et, al. Partial restoration by a neuroleptic (spiramide) of items of grooming behaviour suppressed by amphetamine. Arch Int Pharmacodyn Ther. 1974 Jul;210(1):61-6.
Ismaiel AM, et, al. Antagonism of 1-(2,5-dimethoxy-4-methylphenyl)-2-aminopropane stimulus with a newly identified 5-HT2- versus 5-HT1C-selective antagonist. J Med Chem. 1993 Aug 20;36(17):2519-25.
Czoty PW, et, al. Behavioral effects of AMI-193, a 5-HT(2A)- and dopamine D(2)-receptor antagonist, in the squirrel monkey. Pharmacol Biochem Behav. 2000 Oct;67(2):257-64.