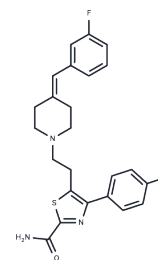


NRA-0160

Chemical Properties

CAS No. : 204718-47-8
 Formula: C₂₄H₂₃F₂N₃O₅
 Molecular Weight: 439.52
 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	NRA-0160 is a selective antagonist of dopamine D4 receptor(Ki of 0.48 nM)
Targets(IC50)	5-HT Receptor,Adrenergic Receptor,Dopamine Receptor
In vivo	NRA0160 dose-dependently and significantly reverses the effects of MAP on both A9 and A10 dopamine neurons.?NRA0160 is slightly more potent in reversiig the effects of MAP on A10 (ED50 = 1.0 mg/kg) than on A9 dopamine neurons (ED50 = 1.3 mg/kg).?NRA0160 reverses the effect of APO on both A9 and A10 dopamine neurons.?ED50 values for the effects of NRA0160 on APO-induced inhibition of A9 and A10 dopamine neurons are 1.3 mg/kg and 0.5 mg/kg, respectively[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2752 mL	11.376 mL	22.7521 mL
5 mM	0.455 mL	2.2752 mL	4.5504 mL
10 mM	0.2275 mL	1.1376 mL	2.2752 mL
50 mM	0.0455 mL	0.2275 mL	0.455 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

Abekawa T, et al. Effects of NRA0045, a novel potent antagonist at dopamine D4, 5-HT2A, and alpha1 adrenaline receptors, and NRA0160, a selective D4 receptor antagonist, on phencyclidine-induced behavior and glutamate release in rats. *Psychopharmacology (Berl)*. 2003 Sep;169(3-4):247-56. Epub 2003 Jul 31.

Kawashima N, et al. Effects of selective dopamine D4 receptor blockers, NRA0160 and L-745,870, on A9 and A10 dopamine neurons in rats. *Life Sci*. 1999;65(24):2561-71.

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