

Product Data Sheet

Product Name: AMI-193

Cat. No.: GC16049

Chemical Properties

Cas. No. 510-74-7

Chemical Name 8-(3-(4-fluorophenoxy)propyl)-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one

SMILES FC1=CC=C(C=C1)OCCCN2CC[C@]3(CC2)N(C4=CC=CC=C4)CNC3=O

Formula $C_{22}H_{26}FN_3O_2$ M.Wt 383.46

Solubility <28.76mg/ml in DMSO Storage Store at RT

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

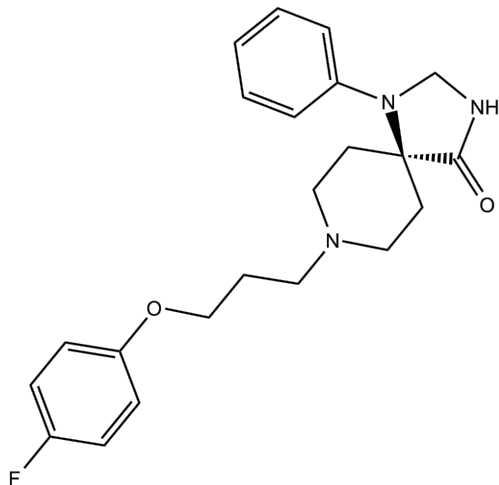
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

AMI-193 is a potent and selective antagonist of 5-HT_{2A} receptor and dopamine D₂-receptor with K_i values of 2 and 3 nM, respectively [1].

The 5-HT_{2A} receptor is a G protein-coupled receptor and a subtype of the 5-HT₂ receptor. The 5-HT_{2A} receptor plays an important role in the spread of the human polyoma virus. The dopamine D₂-receptor is a G protein-coupled receptor that inhibits adenylyl cyclase activity.

AMI-193 is a potent and selective 5-HT_{2A} receptor and dopamine D₂-receptor antagonist. AMI-193 was highly selective for 5-HT_{2A} versus 5-HT_{2C} receptor with K_i values of 2 and 4300 nM for 5-HT_{2A} and 5-HT_{2C} receptor, respectively [1]. Also, AMI-193 bound to 5-HT₂ receptor with K_i value of 2 nM and exhibited >2000-fold selectivity versus 5-HT_{1C} receptor. In cortical slices, AMI-193 (10⁻¹⁰ - 10⁻⁵ M) inhibited GABA release in a dose-dependent way and increased 5-HT outflow [3].

In rats, AMI-193 behaved as an antagonist with ED₅₀ value of 0.003 mg/kg [2].

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References:

- [1]. Czoty PW, Howell LL. Behavioral effects of AMI-193, a 5-HT(2A)- and dopamine D(2)-receptor antagonist, in the squirrel monkey. *Pharmacol Biochem Behav*, 2000, 67(2): 257-264.
- [2]. Ismaiel AM, De Los Angeles J, Teitler M, 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, 36(17): 2519-2525.
- [3]. Luparini MR, Garrone B, Pazzagli M, et al. A cortical GABA-5HT interaction in the mechanism of action of the antidepressant trazodone. *Prog Neuropsychopharmacol Biol Psychiatry*, 2004, 28(7): 1117-1127.

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