Chemical Properties

Product Name: AMI-193
Cas No.: 510-74-7
M.Wt: 383.46
Formula: C22H26FN3O2

Chemical Name: 8-(3-(4-fluorophenoxy)propyl)-1-phenyl-1,3,8-triazaspiro[4.5]decan-4-one
Canonical SMILES: FC1=CC=C(C=C1)OCCCN2CC[C@]3(CC2)N(C4=CC=CC=C4)CNC3=O
Solubility: Soluble in DMSO > 10 mM
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.

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

Biological Activity

Targets: Neuroscience
Pathways: Dopamine Receptor
Description:
AMI-193 is a potent and selective antagonist of 5-HT2A receptor and dopamine D2-receptor with Ki values of 2 and 3 nM, respectively [1]. The 5-HT2A receptor is a G protein-coupled receptor and a subtype of the 5-HT2 receptor. The 5-HT2A 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-HT2A receptor and dopamine D2-receptor antagonist. AMI-193 was highly selective for 5-HT2A versus 5-HT2C receptor with Ki values of 2 and 4300 nM for 5-HT2A and 5-HT2C receptor, respectively [1]. Also, AMI-193 bound to 5-HT2 receptor with Ki value of 2 nM and exhibited >2000-fold selectivity versus 5-HT1C 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].

Reference:

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.