

5-HT1AR agonist 2

Chemical Properties

CAS No. :

Formula: C31H31N5O3

Molecular Weight: 521.61

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	5-HT1AR Agonist 2 (Compound 4f) is a potent agonist of the 5-HT1A receptor with a Ki value of 10.0 nM. It also binds to SERT, D2, and 5-HT6 receptors with Ki values of 2.8 nM, 23 nM, and 192 nM, respectively. Furthermore, this compound demonstrates stability in microsomes and induces hypothermia in mice.
Targets(IC50)	5-HT Receptor, NOD-like Receptor (NLR), Dopamine Receptor, Interleukin, RIP kinase, Serotonin Transporter
In vitro	5-HT 1A R agonist 2 exhibits high stability in human microsomes with an intrinsic clearance rate of less than 115.5 μ L/min/mg and a half-life (t1/2) exceeding 209 minutes at a concentration of 10 μ M.
In vivo	The compound, 5-HT 1A R agonist 2, administered at doses ranging from 5-20 mg/kg intraperitoneally (i.p.), induces hypothermia in male CD-1 mice 30 minutes prior to testing, similarly to the effect observed with 8-OH-DPAT.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9171 mL	9.5857 mL	19.1714 mL
5 mM	0.3834 mL	1.9171 mL	3.8343 mL
10 mM	0.1917 mL	0.9586 mL	1.9171 mL
50 mM	0.0383 mL	0.1917 mL	0.3834 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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