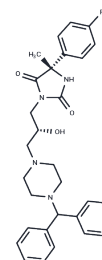


5-HT7R antagonist 3

Chemical Properties

CAS No. : 1887043-58-4
 Formula: C30H33FN4O3
 Molecular Weight: 516.61
 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	Compound 6.4, also known as 5-HT7R antagonist 3, is a selective antagonist of the 5-HT7R with a K_i of 8 nM. It exhibits significantly less affinity towards D2R, 5-HT1AR, and 5-HT2AR with K_i values of 511 nM, 8930 nM, and 5786 nM, respectively. In mice, 5-HT7R antagonist 3 demonstrates anti-depressant and anti-anxiety activities.
Targets(IC50)	E1/E2/E3 Enzyme,5-HT Receptor,Dopamine Receptor
In vitro	5-HT 7 R antagonist 3, active across a range of 1 pM to 1 μM, inhibits cAMP production in cells stably expressing human 5-HT, achieving an IC50 of 113 nM and a K_b of 14 nM.
In vivo	The compound 5-HT7R antagonist 3, administered intraperitoneally at doses of 1.25-10 mg/kg to male BalbC mice (20-25 g) 60 minutes before testing, exhibited significant anti-anxiety and antidepressant effects.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9357 mL	9.6785 mL	19.357 mL
5 mM	0.3871 mL	1.9357 mL	3.8714 mL
10 mM	0.1936 mL	0.9678 mL	1.9357 mL
50 mM	0.0387 mL	0.1936 mL	0.3871 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481