

5-HT1AR/5-HT6R ligand-1

Chemical Properties

CAS No. :

Formula: C₂₅H₂₉ClN₄O₂S

Molecular Weight: 485.04

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/5-HT6R ligand-1 (Compound PP13) functions as a ligand for the 5-HT receptor, demonstrating high affinity for 5-HT1AR, 5-HT6R, and 5-HT7R with K _i values of 19, 69, and 198 nM, respectively. In HEK293 cells, it inhibits cAMP production with EC ₅₀ values of 1535, 488, and 53 nM for these receptors. Additionally, 5-HT1AR/5-HT6R ligand-1 exhibits antiproliferative effects on several cancer cell lines, including 1321N1, U87MG, MCF7, and AsPC-1, with IC ₅₀ values of 9.6, 13.6, 19.3, and 14.6 μM, respectively. The compound also shows antagonistic activity towards the dopamine receptor D2R, with a K _i of 1903 nM.
Targets(IC ₅₀)	5-HT Receptor,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0617 mL	10.3084 mL	20.6169 mL
5 mM	0.4123 mL	2.0617 mL	4.1234 mL
10 mM	0.2062 mL	1.0308 mL	2.0617 mL
50 mM	0.0412 mL	0.2062 mL	0.4123 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.

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