

5-HT4 antagonist 1

Chemical Properties

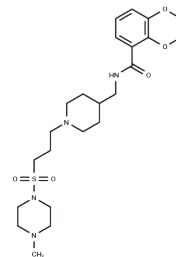
CAS No. : 261766-73-8

Formula: C₂₃H₃₆N₄O₅S

Molecular Weight: 480.62

Storage: Pure form: -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-HT4 antagonist 1 is an antagonist of 5-HT4 (pKi = 9.6).
Targets(IC50)	5-HT Receptor
In vivo	5-HT4 antagonist 1 demonstrates good exposure and prolongs t1/2 in other species with t1/2 of 7, 12, and 21 hours for mice, rats, and mini-pig[1].

Solubility Information

Solubility	DMSO: 3.67 mg/mL (7.64 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0806 mL	10.4032 mL	20.8065 mL
5 mM	0.4161 mL	2.0806 mL	4.1613 mL
10 mM	0.2081 mL	1.0403 mL	2.0806 mL
50 mM	0.0416 mL	0.2081 mL	0.4161 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.

Reference

Clark RD, et al. Identification of a 5-HT4 receptor antagonist clinical candidate through side-chain modification. Bioorg Med Chem Lett. 2005 Mar 15;15(6):1697-700.

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