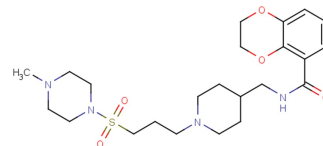


5-HT4 antagonist 1

Chemical Properties

CAS No.:	261766-73-8
Formula:	C ₂₃ H ₃₆ N ₄ O ₅ S
Molecular Weight:	480.62
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	5-HT4 antagonist 1 is a 5-HT4 receptor antagonist (pKi: 9.6).
Targets(IC ₅₀)	5-HT4 Receptor: 9.6 (pki)
In vivo	5-HT4 antagonist 1 (compound 6b) demonstrates good exposure and prolongs t _{1/2} in other species, including the mouse (t _{1/2} 7 h), rat (t _{1/2} 12 h), and mini-pig (t _{1/2} 21 h). In Phase I clinical trial, it is found that 5-HT4 antagonist 1 has good oral bioavailability with a steady-state plasma t _{1/2} of >100 h.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.081 mL	10.403 mL	20.806 mL
5 mM	0.416 mL	2.081 mL	4.161 mL
10 mM	0.208 mL	1.04 mL	2.081 mL
50 mM	0.042 mL	0.208 mL	0.416 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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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