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**Product Data Sheet**

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Product Name: 5-HT4 antagonist 1

Cat. No.: GC30314

**Chemical Properties**

Cas. No. 261766-73-8

SMILES O=C(C1=C2OCCOC2=CC=C1)NCC3CCN(CCCS(=O))(N4CCN(C)CC4)=O)CC3Formula C<sub>23</sub>H<sub>36</sub>N<sub>4</sub>O<sub>5</sub>S

M.Wt 480.62

Solubility DMSO : 20 mg/mL (41.61 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

Store  
Storage at -  
20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

5-HT4 antagonist 1 is a 5-HT4 receptor antagonist with a pKi of 9.6.

5-HT4 antagonist 1 (compound 6b) is a 5-HT4 receptor antagonist with a pKi of 9.6.

5-HT4 antagonist 1 (compound 6b) demonstrates good exposure and prolongs t<sub>1/2</sub> in other species, including the mouse (t<sub>1/2</sub> 7 h), rat (t<sub>1/2</sub> 12 h) and mini-pig (t<sub>1/2</sub> 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<sub>1/2</sub> of >100 h[1].

[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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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