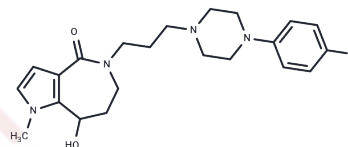


## 5-HT2 antagonist 1

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 191592-09-3   |
| Formula:          | C22H29FN4O2   |
| Molecular Weight: | 400.49  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | 5-HT2 antagonist 1 is a potent 5-HT2 receptor antagonist with weak $\alpha$ 1 adrenoceptor blocking activity.   |
| Targets(IC50) | 5-HT Receptor, Adrenergic Receptor  |
| In vitro      | 5-HT2 antagonist 1 displays dose-dependent inhibition of serotonin (serotonin)-induced contraction in guinea pig mesenteric artery, exhibiting 45%, 88%, and 93% inhibition at concentrations of 10 nM, 100 nM, and 1000 nM, respectively. Conversely, it demonstrates minimal inhibition of norepinephrine-induced contraction in guinea pig aorta, with 1% and 10% inhibition at 10 nM and 100 nM, respectively[1]. |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 85 mg/mL (212.24 mM), Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.4969 mL | 12.4847 mL | 24.9694 mL |
| 5 mM  | 0.4994 mL | 2.4969 mL  | 4.9939 mL  |
| 10 mM | 0.2497 mL | 1.2485 mL  | 2.4969 mL  |
| 50 mM | 0.0499 mL | 0.2497 mL  | 0.4994 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

Mizuno A, et al. Synthesis and serotonin 2 (5-HT<sub>2</sub>) receptor antagonist activity of 5-aminoalkyl-substituted pyrrolo [3,2-c]azepines and related compounds. Chem Pharm Bull (Tokyo). 2000 May;48(5):623-35.

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