

**Product Name:** Fananserin

**Catalog No.:** 2645

**Batch No.:** 1

CAS Number: 127625-29-0

IUPAC Name: 2-[3-[4-(4-Fluorophenyl)-1-piperazinyl]propyl]-2*H*-naphthyl[1,8-*cd*]isothiazole-1,1-dioxide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>23</sub>H<sub>24</sub>FN<sub>3</sub>O<sub>2</sub>S·½H<sub>2</sub>O

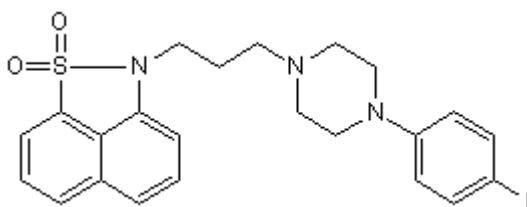
**Batch Molecular Weight:** 434.53

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.6 (Ethyl acetate)

**HPLC:** Shows >99.5% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen | Sulfur |
|-------------|--------|----------|----------|--------|
| Theoretical | 63.58  | 5.8      | 9.67     | 7.38   |
| Found       | 63.78  | 5.63     | 9.68     | 7.41   |

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**Description:**

5-HT<sub>2A</sub> receptor antagonist that also displays high affinity at D<sub>4</sub> receptors (K<sub>i</sub> values are 0.26, 2.93, 25, 38, 70 and 726 nM for 5-HT<sub>2A</sub>, D<sub>4</sub>, H<sub>1</sub>, α<sub>1</sub>, 5-HT<sub>1A</sub> and D<sub>2</sub> receptors respectively). Inhibits inositol phosphate formation evoked by 5-HT in vitro (IC<sub>50</sub> = 7.76 nM) and antagonizes mescaline-induced head twitches in vivo.

**Physical and Chemical Properties:**

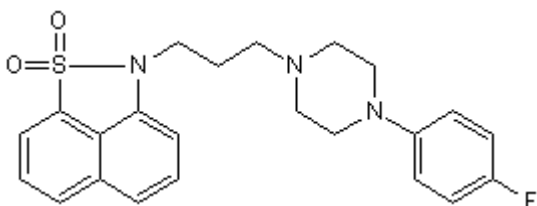
Batch Molecular Formula: C<sub>23</sub>H<sub>24</sub>FN<sub>3</sub>O<sub>2</sub>S.½H<sub>2</sub>O

Batch Molecular Weight: 434.53

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**Malleron et al** (1991) Naphthosultam derivatives: a new class of potent and selective 5-HT<sub>2</sub> antagonists. *J.Med.Chem.* **34** 2477. PMID: 1908521.

**Doble et al** (1992) Pharmacological characterization of RP 62203, a novel 5-hydroxytryptamine 5-HT<sub>2</sub> receptor antagonist. *Br.J.Pharmacol.* **105** 27. PMID: 1596688.

**Heuillet et al** (1996) The naphthosultam derivative RP 62203 (fananserin) has high affinity for the dopamine D<sub>4</sub> receptor. *Eur.J.Pharmacol.* **314** 229. PMID: 8957240.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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