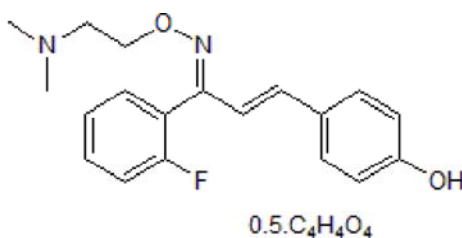


Product Name: Eplivanserin hemifumarate **Catalog No.:** 4958 **Batch No.:** 1
CAS Number: 130580-02-8
IUPAC Name: (1Z,2E)-1-(2-Fluorophenyl)-3-(4-hydroxyphenyl)-2-propen-1-one O-[2-(dimethylamino)ethyl]oxime hemifumarate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁FN₂O₂·0.5C₄H₄O₄·½H₂O
Batch Molecular Weight: 395.43
Physical Appearance: White crystalline solid
Solubility: DMSO to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.79	6.12	7.08
Found	64.03	5.97	7.09

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

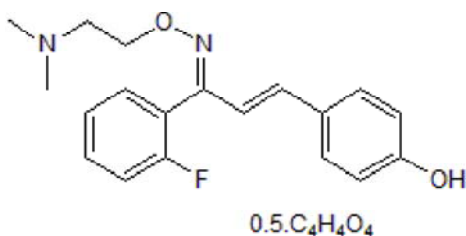
Potent and selective 5-HT_{2A} antagonist (IC₅₀ values are 5.8 and 120 and >100 nM for 5-HT_{2A}, 5-HT_{2B} and 5-HT_{2C}, respectively). Attenuates cocaine-induced hyperactivity. Increases dopamine (DA) release in rat medial prefrontal cortex (mPFC); potentiates haloperidol-induced DA release in the mPFC and nucleus accumbens.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₂₁FN₂O₂·0.5C₄H₄O₄·½H₂O
 Batch Molecular Weight: 395.43
 Physical Appearance: White crystalline solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

- Yadav et al** (2011) Antagonist functional selectivity: 5-HT_{2A} serotonin receptor antagonists differentially regulate 5-HT_{2A} receptor protein level in vivo. *J.Pharmacol.Exp.Ther.* **339** 99. PMID: 21737536.
- Filip et al** (2004) Contribution of serotonin (5-hydroxytryptamine; 5-HT) 5-HT₂ receptor subtypes to the hyperlocomotor effects of cocaine: acute and chronic pharmacological analyses. *J.Pharmacol.Exp.Ther.* **310** 1246. PMID: 15131246.
- Bonaccorso et al** (2002) SR46349-B, a 5-HT(2A/2C) receptor antagonist, potentiates haloperidol-induced DA release in rat medial prefrontal cortex and nucleus accumbens. *Neuropsychopharmacology.* **27** 430. PMID: 12225700.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 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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