

**Product Name:** SF 11

**Catalog No.:** 3898

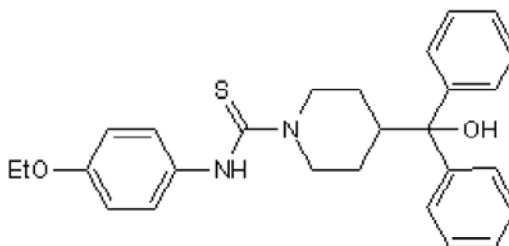
**Batch No.:** 1

CAS Number: 443292-81-7

IUPAC Name: *N*-(4-Ethoxyphenyl)-4-(hydroxydiphenylmethyl)-1-piperidinecarbothioamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub>S  
**Batch Molecular Weight:** 446.6  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 72.61  | 6.77     | 6.27     |
| Found       | 72.4   | 6.82     | 6.19     |

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

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**Description:**

SF 11 is an NPY Y<sub>2</sub> antagonist (IC<sub>50</sub> = 199 nM). Displays no affinity for Y<sub>1</sub> receptor at concentrations up to 35 μM. Causes significant lethality in mice. Displays antidepressant effects in rats. Brain penetrant.

**Physical and Chemical Properties:**

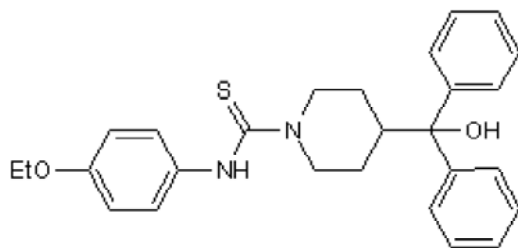
Batch Molecular Formula: C<sub>27</sub>H<sub>30</sub>N<sub>2</sub>O<sub>2</sub>S

Batch Molecular Weight: 446.6

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol 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.

**References:**

**Domin *et al*** (2019) Characterization of the brain penetrant neuropeptide Y<sub>2</sub> receptor antagonist SF-11. *ACS Chem.Neurosci.* **10** 3454. PMID: 31267743 .

**Brothers *et al*** (2010) Selective and brain penetrant neuropeptide Y<sub>2</sub> receptor antagonists discovered by whole-cell high-throughput screening. *Mol.Pharmacol.* **77** 46. PMID: 19837904.

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