

Product Name: SF 11

Catalog No.: 3898

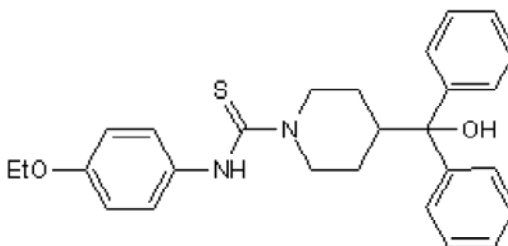
Batch No.: 1

CAS Number: 443292-81-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₃₀N₂O₂S
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
¹H 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:

NPY Y₂ antagonist (IC₅₀ = 199 nM). Displays no affinity for Y₁ receptor at concentrations up to 35 μM. Causes significant lethality in mice. Displays antidepressant effects in rats. Brain penetrant.

Physical and Chemical Properties:

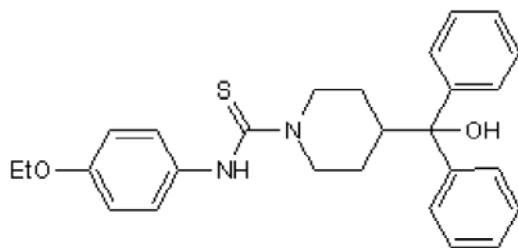
Batch Molecular Formula: C₂₇H₃₀N₂O₂S

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 Y₂ receptor antagonist SF-11. ACS Chem.Neurosci. **10** 3454. PMID: 31267743 .

Brothers et al (2010) Selective and brain penetrant neuropeptide Y₂ receptor antagonists discovered by whole-cell high-throughput screening. Mol.Pharmacol. **77** 46. PMID: 19837904.

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