

**Product Name:** S 25585

**Catalog No.:** 3432

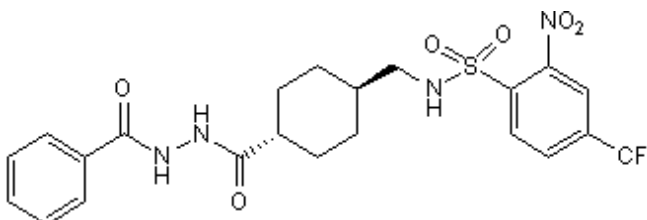
**Batch No.:** 2

CAS Number: 263849-50-9

IUPAC Name: 1-Benzoyl-2-[[*trans*-4-[[[2-nitro-4-(trifluoromethyl)phenyl]sulfonyl]amino]methyl]cyclohexyl]carbonyl]hydrazine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>O<sub>6</sub>S  
**Batch Molecular Weight:** 528.5  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
ethanol to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.23 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	50.01	4.39	10.6
Found	49.96	4.37	10.77

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

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**Description:**

Potent neuropeptide Y (NPY) Y<sub>5</sub> receptor antagonist (IC<sub>50</sub> values are 5.4, > 1000, > 10 000 and > 10 000 nM at Y<sub>5</sub>, Y<sub>1</sub>, Y<sub>2</sub> and Y<sub>4</sub> receptors respectively) that displays no affinity for a wide range of other receptors. Does not produce a conditioned taste aversion, suppress sodium appetite or cause pica in rats. Significantly inhibits NPY-induced feeding but not through blockade of Y<sub>5</sub> receptors.

**Physical and Chemical Properties:**

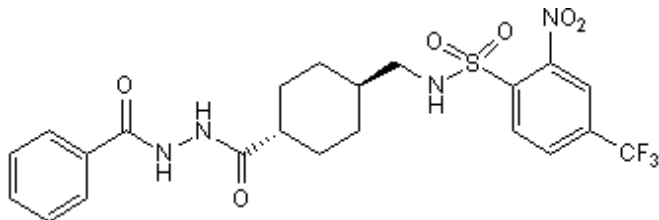
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>F<sub>3</sub>N<sub>4</sub>O<sub>6</sub>S

Batch Molecular Weight: 528.5

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Della-Zuana et al** (2004) A potent and selective NPY Y<sub>5</sub> antagonist reduces food intake but not through blockade of the NPY Y<sub>5</sub> receptor. *Int.J.Obes.* **28** 628.

**Beauverger et al** (2005) Functional characterization of human neuropeptide Y receptor subtype 5 specific antagonists using a luciferase reporter gene assay. *Cell.Signal.* **17** 489. PMID: 15601626.

**Kamiji and Inui** (2007) Neuropeptide Y receptor selective ligands in the treatment of obesity. **28** 664.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel: +1 612 379 2956