

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** NTNCB hydrochloride

**Catalog No.:** 2155

**Batch No.:** 2

**CAS Number:** 191931-56-3

**IUPAC Name:** 2-Nitro-*N*-[[*trans*-4-[[[(1,2,3,4-tetrahydro-2-naphthalenyl)methyl]amino]methyl]cyclohexyl]methyl]benzenesulfonamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>25</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S.HCl

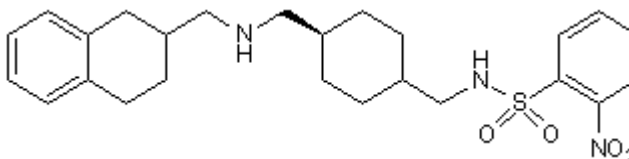
**Batch Molecular Weight:** 508.07

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.15 (Dichloromethane:Methanol [98:2])

**HPLC:** Shows >99% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

Carbon Hydrogen Nitrogen

Theoretical 59.1 6.74 8.27

Found 59.12 6.84 8.21

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

## Product Information

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### Description:

Selective, non-peptide competitive NPY Y<sub>5</sub> antagonist. K<sub>i</sub> values are 8.0 and 16032 nM at human recombinant Y<sub>5</sub> and Y<sub>1</sub> receptors respectively. Potently antagonizes NPY inhibition of forskolin-stimulated cAMP. Displays some affinity for cloned human D<sub>2</sub> and α<sub>2C</sub> receptors (K<sub>i</sub> values are 63 and 100 nM respectively).

### Physical and Chemical Properties:

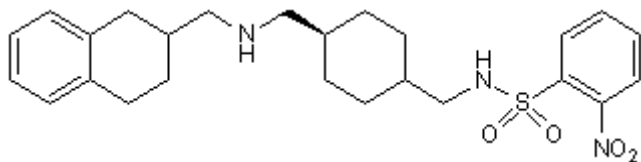
Batch Molecular Formula: C<sub>25</sub>H<sub>33</sub>N<sub>3</sub>O<sub>4</sub>S.HCl

Batch Molecular Weight: 508.07

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

### Batch Molecular Structure:



**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.

### References:

**Islam et al** (2002) Discovery of potent and selective small molecule NPY Y<sub>5</sub> receptor antagonists. *Bioorg.Med.Chem.Lett.* **12** 1767. PMID: 12067557.

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