

**Product Name:** S 38093

**Catalog No.:** 6778

**Batch No.:** 1

CAS Number: 1403835-45-9

IUPAC Name: *rel*-4-[3-[(3*aR*,6*aS*)-Hexahydrocyclopenta[*c*]pyrrol-2(1*H*)-yl]propoxy]benzamide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>17</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>·¼H<sub>2</sub>O

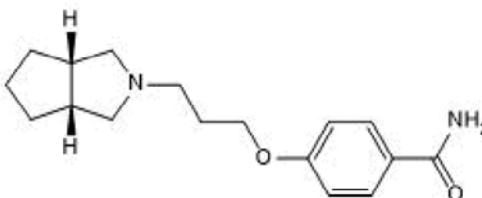
**Batch Molecular Weight:** 292.89

**Physical Appearance:** White solid

**Solubility:** DMSO to 100 mM  
ethanol to 50 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.6% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	69.71	8.43	9.56
Found	69.7	8.3	9.43

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

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**Description:**

H<sub>3</sub> antagonist and inverse agonist (K<sub>i</sub> values are 8.8, 1.2 and 1.44 μM, at rat, human and mouse, respectively). Exhibits no activity at other histaminergic receptors. Antagonizes agonist action at mouse H<sub>3</sub> receptors (K<sub>B</sub> = 0.65 μM). Displays inverse agonist action in cells expressing a high H<sub>3</sub> receptor density, (EC<sub>50</sub> values are 9 and 1.7 μM, at human and rat H<sub>3</sub> receptors, respectively). Exhibits antihyperalgesic effect in a mouse diabetic neuropathy model *in vivo*. Promotes hippocampal neurogenesis in a mouse Alzheimer's disease model. Antinociceptive and procognitive. Also σ<sub>1</sub> receptor antagonist. Exhibits ~30-fold... Please see product datasheet on www.tocris.com for full description.

**Physical and Chemical Properties:**

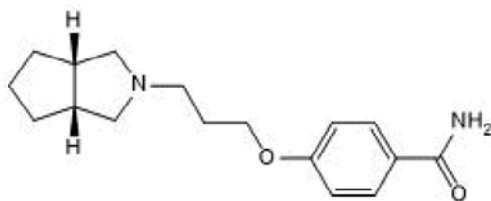
Batch Molecular Formula: C<sub>17</sub>H<sub>24</sub>N<sub>2</sub>O<sub>2</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 292.89

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Riddy *et al*** (2019) Drug-receptor kinetics and sigma-1 receptor affinity differentiate clinically evaluated histamine H<sub>3</sub> receptor antagonists. *Neuropharmacology* **144** 244. PMID: 30359639.

**Chaumette *et al*** (2018) Effects of S 38093, an antagonist/inverse agonist of histamine H<sub>3</sub> receptors, in models of neuropathic pain in rats. *Eur.J.Pain.* **22** 127. PMID: 28877402.

**Guilloux *et al*** (2017) S 38093, a histamine H<sub>3</sub> antagonist/inverse agonist, promotes hippocampal neurogenesis and improves context discrimination task in aged mice. *Sci.Rep.* **7** 42946. PMID: 28218311.

**Guilloux *et al*** (2017) S 38093, a histamine H<sub>3</sub> antagonist/inverse agonist, promotes hippocampal neurogenesis and improves context discrimination task in aged mice. *Sci.Rep.* **7** 42946. PMID: 28218311.

**Storage:** Store at -20°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.

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