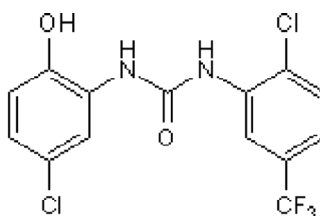


**Product Name:** NS 1738**Catalog No.:** 2995**Batch No.:** 2

CAS Number: 501684-93-1

IUPAC Name: *N*-(5-Chloro-2-hydroxyphenyl)-*N'*-[2-chloro-5-(trifluoromethyl)phenyl]urea**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C<sub>14</sub>H<sub>9</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>**Batch Molecular Weight:** 365.13**Physical Appearance:** Off White solid**Solubility:** DMSO to 100 mM  
ethanol to 100 mM**Storage:** Store at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 99.6% purity**<sup>1</sup>H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	46.05	2.48	7.67
Found	46.09	2.64	7.64

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

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**Product Name:** NS 1738

**Catalog No.:** 2995

**2**

CAS Number: 501684-93-1

IUPAC Name: *N*-(5-Chloro-2-hydroxyphenyl)-*N'*-[2-chloro-5-(trifluoromethyl)phenyl]urea

**Description:**

NS 1738 is a selective positive allosteric modulator of  $\alpha 7$  nicotinic acetylcholine receptors. Exhibits no substantial activity for  $\alpha 4\beta 2$ ,  $\alpha 3\beta 3$  and  $\alpha 1$ -containing receptors. Displays cognitive-enhancing properties *in vivo*.

**Physical and Chemical Properties:**

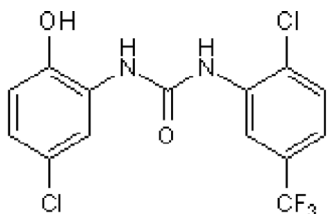
Batch Molecular Formula: C<sub>14</sub>H<sub>9</sub>Cl<sub>2</sub>F<sub>3</sub>N<sub>2</sub>O<sub>2</sub>

Batch Molecular Weight: 365.13

Physical Appearance: Off White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**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.

**References:**

**Freitas et al (2013)** The antinociceptive effects of nicotinic receptors  $\alpha 7$ -positive allosteric modulators in murine acute and tonic pain models. *J.Pharmacol.Exp.Ther.* **344** 264. PMID: 23115222.

**Timmermann et al (2007)** An allosteric modulator of the  $\alpha 7$  nicotinic acetylcholine receptor possessing cognition-enhancing properties *in vivo*. *J.Pharmacol.Exp.Ther.* **323** 294. PMID: 17625074.

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