Print Date: May 18th 2012

Certificate of Analysis

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Product Name: NS 1738 **Catalog No.: 2995** **Batch No.: 1**

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: $C_{14}H_9Cl_2F_3N_2O_2$

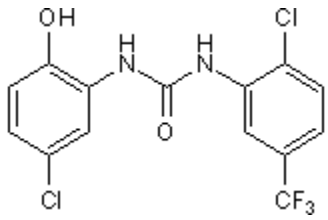
Batch Molecular Weight: 365.13

Physical Appearance: white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.68 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows >99.6% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.05	2.48	7.67
Found	46.06	2.76	7.59

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

Tocris Bioscience is an R&D Systems company

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

Description:

Selective positive allosteric modulator of α7 nicotinic acetylcholine receptors. Exhibits no substantial activity for α4β2, α3β3 and α1-containing receptors. Displays cognitive-enhancing properties in vivo.

Physical and Chemical Properties:

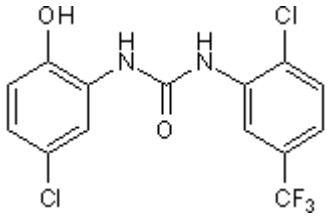
Batch Molecular Formula: $C_{14}H_9Cl_2F_3N_2O_2$

Batch Molecular Weight: 365.13

Physical Appearance: white solid

Minimum Purity: >99%

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:

Timmermann *et al* (2007) An allosteric modulator of the α7 nicotinic acetylcholine receptor possessing cognition-enhancing properties *in vivo*. J.Pharmacol.Exp.Ther. ***323*** 294. PMID: 17625074.