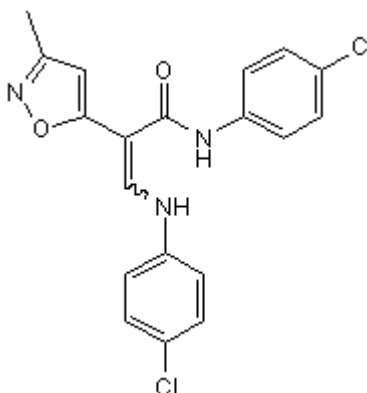


Certificate of Analysis

Product Name: CCM1 **Catalog No.:** 3837 **Batch No.:** 1
CAS Number: 917837-54-8
IUPAC Name: [N-(4-Chlorophenyl)]-α-[(4-chlorophenyl)-aminomethylene]-3-methyl-5-isoxazoleacetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₁₅Cl₂N₃O₂
Batch Molecular Weight: 388.25
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
 ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.84 (Ethyl acetate:Petroleum ether [1:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.78	3.89	10.82
Found	58.67	3.85	10.86

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

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IUPAC Name: [N-(4-Chlorophenyl)]- α -[(4-chlorophenyl)-aminomethylene]-3-methyl-5-isoxazoleacetamide

Description:

Positive allosteric modulator of $\alpha 7$ neuronal nicotinic acetylcholine receptors (nAChR). Evokes positive modulation of acetylcholine (ACh)-induced EC₅ currents (EC₅₀ = 0.7 μ M). Exhibits cognitive-enhancing properties in rodent models; displays no cytotoxic effects in PC12 cells or rat primary cortical neurons.

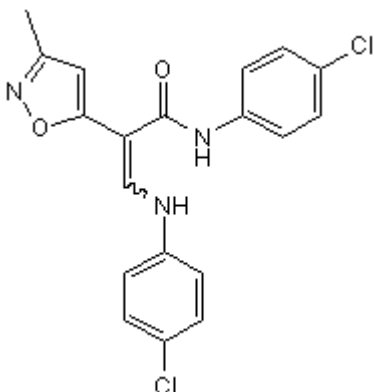
Physical and Chemical Properties:

Batch Molecular Formula: C₁₉H₁₅Cl₂N₃O₂

Batch Molecular Weight: 388.25

Physical Appearance: Yellow solid

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 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:

Gronlien et al (2007) Distinct profiles of $\alpha 7$ nAChR positive allosteric modulation revealed by structurally diverse chemotypes. *Mol.Pharmacol.* **72** 715. PMID: 17565004.

Ng et al (2007) Nootropic $\alpha 7$ nicotinic receptor allosteric modulator derived from GABA_A receptor modulators. *Proc.Natl.Acad.Sci.* **104** 8059.

Hu et al (2009) Positive allosteric modulation of $\alpha 7$ neuronal nicotinic acetylcholine receptors: lack of cytotoxicity in PC12 cells and rat primary cortical neurons. *Br.J.Pharmacol.* **158** 1857. PMID: 20050184.

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