TOCRIS a biotechne brand

Certificate of Analysis

www.tocris.com

Product Name: PNU 120596

Catalog No.: 2498 Batch No.: 3

CAS Number: IUPAC Name: 501925-31-1 *N*-(5-Chloro-2,4-dimethoxyphenyl)-*N*-(5-methyl-3-isoxazolyl)-urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{13}H_{14}CIN_3O_4$ 311.72 White fluffy solid DMSO to 100 mM Desiccate at +4°C

MeO OMe ΗŅ CL

2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.66 (Chloroform:Methanol [9:1]) Shows 99.7% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	50.09	4.53	13.48
Found	49.93	4.47	13.47

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

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CAS Number: 501925-31-1

IUPAC Name: N-(5-Chloro-2,4-dimethoxyphenyl)-N-(5-methyl-3-isoxazolyl)-urea

Description:

Positive allosteric modulator of α 7 neuronal nicotinic acetylcholine receptors (EC₅₀ = 216 nM), with no detectable effect on α 4 β 2, α 3 β 4 and α 9 α 10 receptors. Active in vivo following systemic administration. Neuroprotective in an in vivo model of transient focal cerebral ischemia.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₃H₁₄ClN₃O₄ Batch Molecular Weight: 311.72 Physical Appearance: White fluffy solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at +4°C

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).

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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:

Hurst *et al* (2005) A novel positive allosteric modulator of the α7 neuronal nicotinic acetylcholine receptor: *in vitro* and *in vivo* characterization. J.Neurosci. **25** 4396. PMID: 15858066.

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.

Kalappa *et al* (2013) A positive allosteric modulator of α7 nAChRs augments neuroprotective effects of endogenous nicotinic agonists in cerebral ischemia. Br.J.Pharmacol. [Epub ahead of print]. PMID: 23713819.

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