TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **VU 0364770** **Catalog No.: 4469** **Batch No.: 1**

CAS Number: 61350-00-3

IUPAC Name: *N*-(3-Chlorophenyl)-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_9ClN_2O$

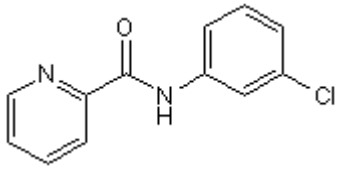
Batch Molecular Weight: 232.67

Physical Appearance: Colourless crystals

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.89 (Chloroform:Methanol [97.5:2.5])

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.95	3.9	12.04
Found	61.84	3.8	12.25

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CAS Number: 61350-00-3

IUPAC Name: *N*-(3-Chlorophenyl)-2-pyridinecarboxamide

Description:

Positive allosteric modulator at $mGlu_4$ receptors (EC_{50} = 290 nM in $mGlu_4$-expressing HEK 293 cells). Reverses haloperidol-induced catalepsy in rats; prevents attentional deficit and forelimb asymmetry in a rodent model of Parkinson's disease. Exhibits affinity for MAO-B and MAO-A (K_i values are 0.72 µM and 8.5 µM respectively). Brain penetrant.

Physical and Chemical Properties:

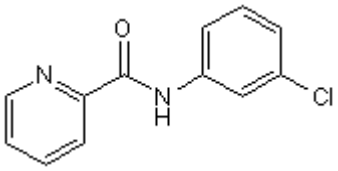
Batch Molecular Formula: $C_{12}H_9ClN_2O$

Batch Molecular Weight: 232.67

Physical Appearance: Colourless crystals

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

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).

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:

Jones *et al* (2012) The metabotropic glutamate receptor 4-positive allosteric modulator VU0364770 produces efficacy alone and in combination with L-DOPA or an adenosine 2A antagonist in preclinical rodent models of Parkinson's disease. J.Pharmacol.Exp.Ther. ***340*** 404. PMID: 22088953.