TOCRIS
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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **VU 0361737** **Catalog No.: 3707** **Batch No.: 2**

CAS Number: 1161205-04-4

IUPAC Name: *N*-(4-Chloro-3-methoxyphenyl)-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{11}ClN_2O_2$

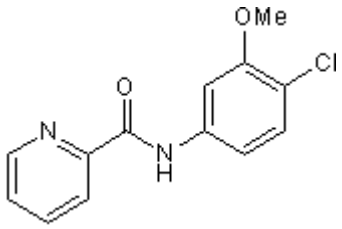
Batch Molecular Weight: 262.69

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.65 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.44	4.22	10.66
Found	59.42	4.24	10.56

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Description:

Selective positive allosteric modulator at $mGlu_4$ receptors (EC_{50} values are 240 and 110 nM at human and rat receptors respectively). Inactive at $mGlu_1$, $mGlu_2$, $mGlu_3$, $mGlu_6$ and $mGlu_7$ receptors and displays weak activity at $mGlu_5$ and $mGlu_8$ receptors. Brain penetrant.

Physical and Chemical Properties:

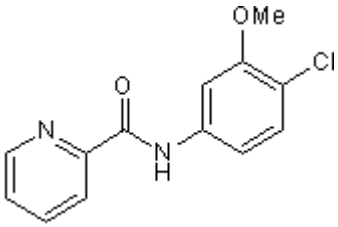
Batch Molecular Formula: $C_{13}H_{11}ClN_2O_2$

Batch Molecular Weight: 262.69

Physical Appearance: Beige solid

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:

Engers *et al* (2009) Synthesis and evaluation of a series of heterobiarylamides that are centrally penetrant metabotropic glutamate receptor 4 (mGluR4) positive allosteric modulators (PAMs). J.Med.Chem. ***52*** 4115. PMID: 19469556.

Engers *et al* (2011) Discovery, synthesis, and structure-activity relationship development of a series of *N*-(4-Acetamido) phenylpicolinamides as positive allosteric modulators of metabotropic glutamate receptor 4 (mGlu4) with CNS exposure in rats. J.Med.Chem. ***54*** 1106. PMID: 21247167.

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