

## Certificate of Analysis

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**Product Name:** VU 0364439

**Catalog No.:** 4371

**Batch No.:** 1

CAS Number: 1246086-78-1

IUPAC Name: *N*-[3-Chloro-4-[[[(2-chlorophenyl)amino]sulfonyl]phenyl]-2-pyridinecarboxamide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>18</sub>H<sub>13</sub>Cl<sub>2</sub>N<sub>3</sub>O<sub>3</sub>S

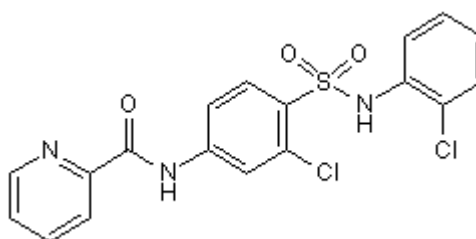
**Batch Molecular Weight:** 422.29

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.29 (Chloroform)

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.2	3.1	9.95
Found	51.04	3.09	9.76

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**Description:**

Positive allosteric modulator (PAM) of mGlu<sub>4</sub> receptors (EC<sub>50</sub> = 19.8 nM in vitro for human mGlu<sub>4</sub>).

**Physical and Chemical Properties:**

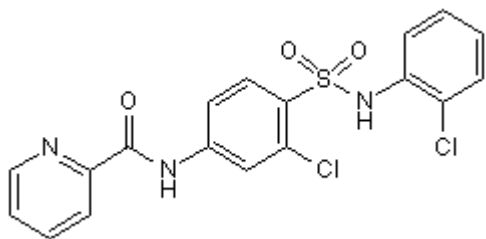
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Batch Molecular Weight: 422.29

Physical Appearance: Off-white 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*** (2010) Synthesis and SAR of novel, 4-(phenylsulfamoyl)phenylacetamide mGlu<sub>4</sub> positive allosteric modulators (PAMs) identified by functional high-throughput screening (HTS). *Bioorg.Med.Chem.Lett.* **20** 5175. PMID: 20667732.

**Robichaud *et al*** (2011) Recent progress on the identification of metabotropic glutamate 4 receptor ligands and their potential utility as CNS therapeutics. *ACS Chem.Neurosci.* **2** 433.

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