

Product Name: VU 0422288

Catalog No.: 5378

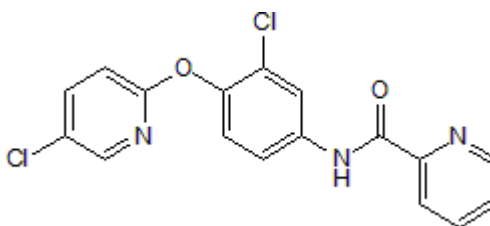
Batch No.: 1

CAS Number: 1630936-95-6

IUPAC Name: *N*-[3-Chloro-4-[(5-chloro-2-pyridinyl)oxy]phenyl]-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₁Cl₂N₃O₂
Batch Molecular Weight: 360.19
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.29 (Ethyl acetate:Petroleum ether [4:1])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.69	3.08	11.67
Found	56.75	3.09	11.67

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

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Description:

Group III mGlu receptor positive allosteric modulator (EC₅₀ values are 108, 125 and 146 nM for mGlu₄, mGlu₈ and mGlu₇ respectively). Exhibits selectivity over a panel of 68 other GPCRs, ion channels and transporters. Potentiates mGlu₇-mediated reductions in excitatory post synaptic potentials in hippocampal slices.

Physical and Chemical Properties:

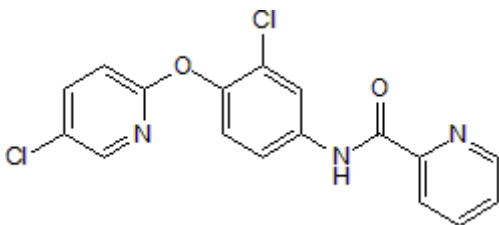
Batch Molecular Formula: C₁₇H₁₁Cl₂N₃O₂

Batch Molecular Weight: 360.19

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Jalan-Sakrikar et al (2014) Identification of positive allosteric modulators VU0155094 (ML397) and VU0422288 (ML396) reveals new insights into the biology of metabotropic glutamate receptor 7. *ACS Chem.Neurosci.* **5** 1221. PMID: 25225882.

Storage: Store 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).

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.

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