

Certificate of Analysis

Product Name: VU 0483605

Catalog No.: 5377

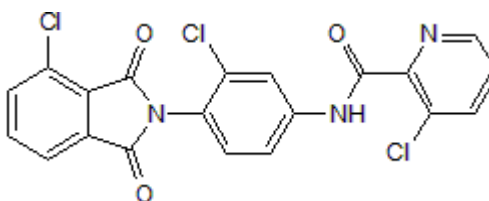
Batch No.: 1

CAS Number: 1623101-11-0

IUPAC Name: 3-Chloro-N-[3-chloro-4-(4-chloro-1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)phenyl]-2-pyridinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₀Cl₃N₃O₃
Batch Molecular Weight: 446.67
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.4 (Ethyl acetate:Petroleum ether [3:7])
HPLC: Shows >98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.78	2.26	9.41
Found	53.5	2.21	9.35

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

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Description:

Positive allosteric modulator at mGlu₁ (EC₅₀ values are 356 and 390 nM for rat and human receptors, respectively). Exhibits >25-fold selectivity for mGlu₁ over mGlu₄. Potentiates the decreased glutamate-induced calcium response in mGlu₁ mutant cell models of schizophrenia.

Physical and Chemical Properties:

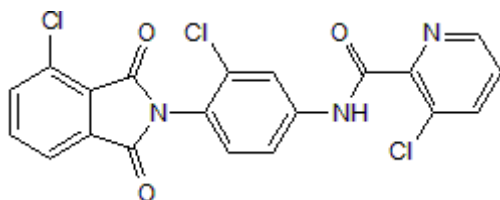
Batch Molecular Formula: C₂₀H₁₀Cl₃N₃O₃

Batch Molecular Weight: 446.67

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Cho *et al* (2014) Chemical modulation of mutant mGlu₁ receptors derived from deleterious GRM1 mutations found in schizophrenics. ACS Chem.Biol. **9** 2334. PMID: 25137254.

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