

Certificate of Analysis

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Product Name: VU 0155041

Catalog No.: 3248

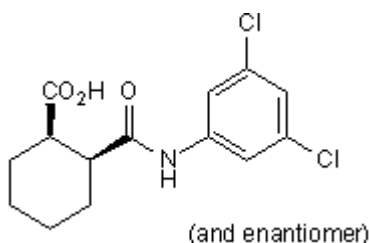
Batch No.: 1

CAS Number: 1093757-42-6

IUPAC Name: *cis*-2-[[[(3,5-Dichlorophenyl)amino]carbonyl]cyclohexanecarboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₄ H ₁₅ Cl ₂ NO ₃
Batch Molecular Weight:	316.18
Physical Appearance:	White solid
Solubility:	1eq. NaOH to 100 mM DMSO to 100 mM ethanol to 100 mM
Storage:	Store at RT
Batch Molecular Structure:	



2. ANALYTICAL DATA

Melting Point:	At 192°C
HPLC:	Shows >99.4% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
Microanalysis:	
	Carbon Hydrogen Nitrogen
	Theoretical 53.18 4.78 4.43
	Found 53.1 4.77 4.13

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

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Description:

Potent, positive allosteric modulator/allosteric agonist at mGlu₄ receptors (EC₅₀ = 798 and 693 nM at human and rat mGlu₄ receptors respectively). Active in in vivo models of Parkinson's disease following i.c.v. administration. Also available as sodium salt (Cat. No. 3311).

Physical and Chemical Properties:

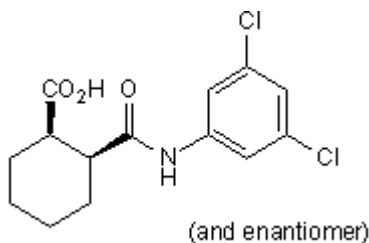
Batch Molecular Formula: C₁₄H₁₅Cl₂NO₃

Batch Molecular Weight: 316.18

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Niswender et al (2008) Discovery, characterization, and antiparkinsonian effect of novel positive allosteric modulators of metabotropic glutamate receptor 4. *Mol.Pharmacol.* **74** 1345. PMID: 18664603.

Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM
DMSO to 100 mM
ethanol 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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