

Certificate of Analysis

Product Name: VU 0155041 sodium salt

Catalog No.: 3311

Batch No.: 4

CAS Number: 1259372-69-4

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₄Cl₂NNaO₃·½H₂O

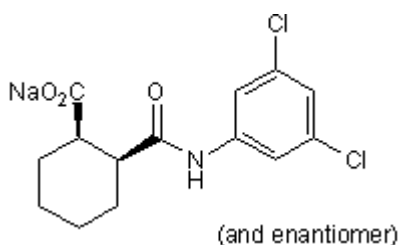
Batch Molecular Weight: 347.17

Physical Appearance: White solid

Solubility: water to 25 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	48.44	4.35	4.03
Found	48.52	4.02	4.03

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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. Sodium salt of VU 0155041 (Cat. No. 3248).

Physical and Chemical Properties:

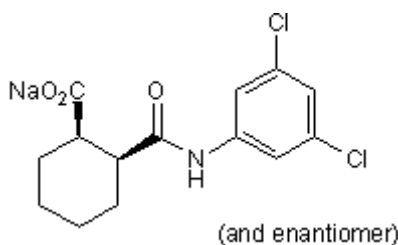
Batch Molecular Formula: C₁₄H₁₄Cl₂NNaO₃·½H₂O

Batch Molecular Weight: 347.17

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 25 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:

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.

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