

Certificate of Analysis

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Product Name: CHPG Sodium salt

Catalog No.: 3695

Batch No.: 4

CAS Number: 1303993-73-8

IUPAC Name: (RS)-2-Chloro-5-hydroxyphenylglycine sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₇ClNNaO₃·³/₄H₂O

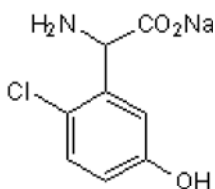
Batch Molecular Weight: 237.1

Physical Appearance: Brown solid

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	40.53	3.61	5.91
Found	40.56	3.49	5.94

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

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Product Name: CHPG Sodium salt

Catalog No.: 3695

Batch No.: 4

CAS Number: 1303993-73-8

IUPAC Name: (R*S*)-2-Chloro-5-hydroxyphenylglycine sodium salt

Description:

Sodium salt of the selective mGlu₅ agonist CHPG (Cat. No. 1049).

Physical and Chemical Properties:

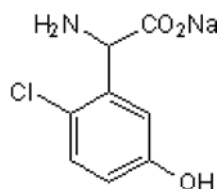
Batch Molecular Formula: C₈H₇ClNNaO₃·³/₄H₂O

Batch Molecular Weight: 237.1

Physical Appearance: Brown solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 50 mM

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:

Bao et al (2001) Selective mGluR5 receptor antagonist or agonist provides neuroprotection in a rat model of focal cerebral ischaemia. *Brain Res.* **922** 173. PMID: 11743947.

Salt et al (1999) Antagonism of the mGlu5 agonist 2-chloro-5-hydroxyphenylglycine by the novel selective mGlu5 antagonist 6-methyl-2-(phenylethynyl)-pyridine (MPEP) in the thalamus. *Br.J.Pharmacol.* **127** 1057. PMID: 10455248.

Doherty et al (1997) (R*S*)-2-Chloro-5-hydroxyphenylglycine (CHPG) activates mGlu₅, but not mGlu₁, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus. *Neuropharmacology* **36** 265. PMID: 9144665.

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