

**Product Name:** CHPG

**Catalog No.:** 1049

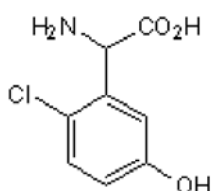
**Batch No.:** 18

CAS Number: 170846-74-9

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>8</sub>H<sub>8</sub>NO<sub>3</sub>Cl  
**Batch Molecular Weight:** 201.61  
**Physical Appearance:** Off White solid  
**Solubility:** 1.1eq. NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows >99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.66	4	6.95
Found	47.45	3.79	6.9

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

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**Description:**

A selective mGlu<sub>5</sub> metabotropic glutamate receptor agonist, completely inactive at mGlu<sub>1a</sub> receptors expressed in CHO cells. Active in vivo. Sodium Salt also available.

**Physical and Chemical Properties:**

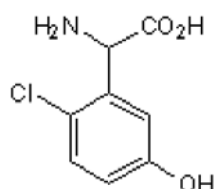
Batch Molecular Formula: C<sub>8</sub>H<sub>8</sub>NO<sub>3</sub>Cl

Batch Molecular Weight: 201.61

Physical Appearance: Off White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1.1eq. NaOH 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.

**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.

**Ugolini et al** (1999) Potentiation of NMDA and AMPA responses by the specific mGluR5 agonist CHPG in spinal cord motoneurons. *Neuropharmacology* **38** 1569. PMID: 10530818.

**Doherty et al** (1997) (RS)-2-Chloro-5-hydroxyphenylglycine (CHPG) activates mGlu<sub>5</sub>, but not mGlu<sub>1</sub>, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus. *Neuropharmacology* **36** 265. PMID: 9144665.

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