

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@helloworldbio.com



## DATASHEET

(R,S)-CHPG sodium salt

### Product overview

<b>Name</b>	(R,S)-CHPG sodium salt
<b>Cat No</b>	HB0034
<b>Biological action</b>	Agonist
<b>Purity</b>	>99%
<b>Description</b>	Selective mGlu <sub>5</sub> agonist. Water soluble sodium salt.

### Images



### Biological Data

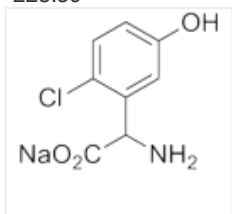
<b>Biological description</b>	Selective mGlu <sub>5</sub> receptor agonist which shows no activity at mGlu <sub>1</sub> . Potentiates NMDA-induced depolarizations in rat hippocampal slices. Active <i>in vivo</i> . Water soluble sodium salt.
-------------------------------	--

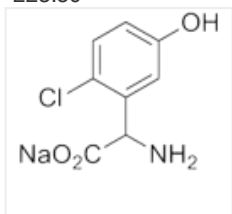
CHPG also available.

### Solubility & Handling

<b>Storage instructions</b>	+4 °C (desiccate)
<b>Solubility overview</b>	Soluble in water (75 mM) and in DMSO (50 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(R,S)-2-Amino-2-(2-chloro-5-hydroxyphenyl)acetic acid sodium salt
<b>Molecular Weight</b>	223.59
<b>Chemical structure</b>	



<b>Molecular Formula</b>	C <sub>8</sub> H <sub>7</sub> ClNaO <sub>3</sub>
<b>CAS Number</b>	1303993-73-8
<b>PubChem identifier</b>	52974246
<b>SMILES</b>	C1=CC(=C(C=C1O)C(C(=O)[O-])N)Cl.[Na+]
<b>Source</b>	Synthetic
<b>InChi</b>	1S/C8H8ClNO3.Na/c9-6-2-1-4(11)3-5(6)7(10)8(12)13;/h1-3,7,11H,10H2,(H,12,13);/q;+1/p-1
<b>InChiKey</b>	KZRZZIISUUIINJT-UHFFFAOYSA-M
<b>Appearance</b>	Brown solid

---

## References

**(RS)-2-chloro-5-hydroxyphenylglycine (CHPG) activates mGlu5, but no mGlu1, receptors expressed in CHO cells and potentiates NMDA responses in the hippocampus.**

Doherty AJ *et al* (1997) *Neuropharmacology* 36(2)

**PubMedID** [9144665](#)

**Activation of mGluR5 attenuates NMDA-induced neurotoxicity through disruption of the NMDAR-PSD-95 complex and preservation of mitochondrial function in differentiated PC12 cells.**

Dai SH *et al* (2014) *Int J Mol Sci* 15(6)

**PubMedID** [24941251](#)

**The selective mGluR5 agonist CHPG protects against traumatic brain injury in vitro and in vivo via ERK and Akt pathway.**

Chen T *et al* (2012) *Int J Mol Med* 29(4)

**PubMedID** [22211238](#)

**Characterisation of the actions of group I metabotropic glutamate receptor subtype selective ligands on excitatory amino acid release and sodium-dependent re-uptake in rat cerebrocortical minislices.**

Fazal A *et al* (2003) *J Neurochem* 86(6)

**PubMedID** [12950444](#)

---