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## DATASHEET

### (S)-4-Carboxyphenylglycine

#### Product overview

|                          |  |
|--------------------------|--|
| <b>Name</b>              | (S)-4-Carboxyphenylglycine                     |
| <b>Cat No</b>            | HB0049   |
| <b>Biological action</b> | Antagonist                                     |
| <b>Purity</b>            | >99%   |
| <b>Description</b>       | Competitive, selective group 1 mGlu antagonist |

#### Images



#### Biological Data

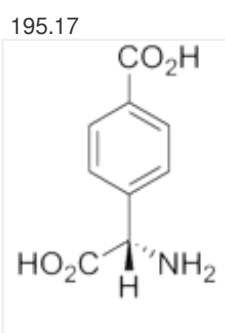
|                               |   |
|-------------------------------|---|
| <b>Biological description</b> | Competitive and selective group 1 mGluR antagonist. Shows selectivity for mGluR <sub>1a</sub> over mGluR <sub>5a/5b</sub> . Displays preventative vasospasm properties. |
|-------------------------------|---|

#### Solubility & Handling

|                             |   |
|-----------------------------|---|
| <b>Storage instructions</b> | Room temperature  |
| <b>Solubility overview</b>  | Soluble in NaOH(aq) (100mM, gentle warming)   |
| <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

**Molecular Weight**  
**Chemical structure**



|                           |   |
|---------------------------|---|
| <b>Molecular Formula</b>  | C <sub>9</sub> H <sub>9</sub> NO <sub>4</sub> |
| <b>CAS Number</b>         | 134052-73-6                                   |
| <b>PubChem identifier</b> | 5311459                                       |
| <b>SMILES</b>             | [H][C@@](N)(C(O)=O)C1=CC=C(C(O)=O)C=C1        |
| <b>InChIKey</b>           | VTMJKPGFERYGJF-ZETCQYMHSA-N                   |

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## References

### Antagonist activity of alpha-substituted 4-carboxyphenylglycine analogues at group I metabotropic glutamate receptors expressed in CHO cells.

Doherty AJ *et al* (1999) Br J Pharmacol 126(1)

**PubMedID** [10051137](#)

### A glutamate receptor antagonist, S-4-carboxyphenylglycine (S-4-CPG), inhibits vasospasm after subarachnoid hemorrhage in haptoglobin 2-2 mice [corrected].

Garzon-Muvdi T *et al* (2013) Neurosurgery 73(4)

**PubMedID** [23842553](#)

### Phenylglycine derivatives discriminate between mGluR1- and mGluR5-mediated responses.

Brabet I *et al* (1995) Neuropharmacology 34(8)

**PubMedID** [8532171](#)

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