

## Certificate of Analysis

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**Product Name:** (S)-3-Hydroxyphenylglycine

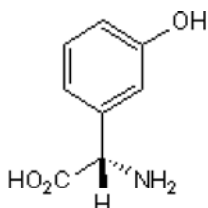
**Catalog No.:** 0326

**Batch No.:** 10

**CAS Number:** 71301-82-1

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>8</sub>H<sub>9</sub>NO<sub>3</sub>  
**Batch Molecular Weight:** 167.16  
**Physical Appearance:** Off-white solid  
**Solubility:** water to 50 mM  
 phosphate buffered saline to 50 mM  
 1eq. NaOH to 100 mM  
 1eq. HCl to 100 mM  
**Storage:** Desiccate at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.36 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**Melting Point:** Between 223 - 229°C  
**Chiral HPLC:** Shows 100% purity  
<sup>1</sup>H NMR: Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +156 (Concentration = 0.5, Solvent = )  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	57.48	5.43	8.38
Found	54.15	5.43	8.27

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

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## Product Information

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**Product Name:** (S)-3-Hydroxyphenylglycine

**Catalog No.:** 0326

**Batch No.:** 10

**CAS Number:** 71301-82-1

### Description:

Agonist at group I metabotropic glutamate receptors (mGlu<sub>1</sub>) having no effect at mGlu<sub>2</sub> or mGlu<sub>4</sub>. Racemate also available.

### Physical and Chemical Properties:

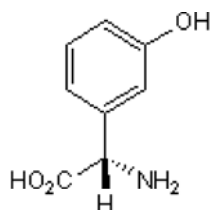
Batch Molecular Formula: C<sub>8</sub>H<sub>9</sub>NO<sub>3</sub>

Batch Molecular Weight: 167.16

Physical Appearance: Off-white solid

**Minimum Purity:** >99%

### Batch Molecular Structure:



**Storage:** Desiccate at RT

### Solubility & Usage Info:

water to 50 mM

phosphate buffered saline to 50 mM

1eq. NaOH to 100 mM

1eq. HCl to 100 mM

Whilst supplied of high purity, this product is very sensitive to air and light promoted oxidation, and may discolour slightly over time, particularly when in solution. Chemical and pharmacological analysis shows that this discolouration has no noticeable effect on its properties and can be safely ignored. Nonetheless, as a precautionary measure we recommend that the solid material be stored at -20°C away from light, and that solutions, once made up, are stored frozen and used within one week.

### 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:

**Hayashi *et al*** (1994) Analysis of agonist and antagonist activities of phenylglycine derivatives for different cloned metabotropic glutamate receptor subtypes. *J.Neurosci.* **14** 3370. PMID: 8182479.

**Birse *et al*** (1993) Phenylglycine derivatives as new pharmacological tools for investigating the role of metabotropic glutamate receptors in the central nervous system. *Neuroscience* **52** 481. PMID: 7680790.

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