

## Certificate of Analysis

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**Product Name:** (R)-3-Carboxy-4-hydroxyphenylglycine

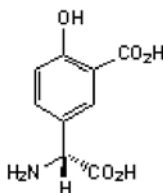
**Catalog No.:** 0328

**Batch No.:** 3

CAS Number: 13861-03-5

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>9</sub>H<sub>9</sub>NO<sub>5</sub>.H<sub>2</sub>O  
**Batch Molecular Weight:** 229.19  
**Physical Appearance:** White crystalline solid  
**Solubility:** 1eq. NaOH to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**Melting Point:** Between 225 - 227°C  
**Chiral HPLC:** Shows >98% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -132.3 (Concentration = 0.75, Solvent = 6N HCl)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	47.17	4.84	6.11
Found	47.33	4.87	6.06

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

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**Product Name:** (R)-3-Carboxy-4-hydroxyphenylglycine

**Catalog No.:** 0328

**Batch No.:** 3

CAS Number: 13861-03-5

**Description:**

Moderately potent NMDA and AMPA/kainate receptor antagonist. S-enantiomer also available.

**Physical and Chemical Properties:**

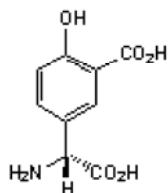
Batch Molecular Formula: C<sub>9</sub>H<sub>9</sub>NO<sub>5</sub>.H<sub>2</sub>O

Batch Molecular Weight: 229.19

Physical Appearance: White crystalline solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH to 100 mM

Whilst supplied of high purity, this material 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:**

**Watkins et al** (1987) Recent advances in the pharmacology of excitatory amino acids. Excitatory Amino Acid Transmission. Eds. Hicks, Lo 19-26.

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