

Product Name: (S)-4-Carboxy-3-hydroxyphenylglycine

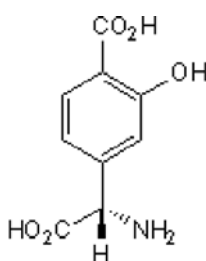
Catalog No.: 0320

Batch No.: 14

CAS Number: 85148-82-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₉NO₅·¼H₂O
Batch Molecular Weight: 215.67
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
water to 5 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.24 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: Greater than 300°C
Chiral HPLC: Shows 98.1% purity
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = +138 (Concentration = .5, Solvent = 1N HCl)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.12	4.44	6.49
Found	50.57	4.29	6.53

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

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Description:

Competitive antagonist at group I mGlu_{1a/1a} receptors, mixed effect at mGlu_{5a/5b} receptors; agonist at group II metabotropic glutamate receptors. Racemate also available.

Physical and Chemical Properties:

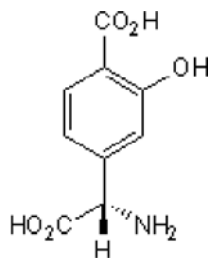
Batch Molecular Formula: C₉H₉NO₅·¼H₂O

Batch Molecular Weight: 215.67

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM
water to 5 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:

Sekiyama et al (1996) Structure-activity relationships of new agonists and antagonists of different metabotropic glutamate receptor subtypes. *Br.J.Pharmacol.* **117** 1493. PMID: 8730745.

Kingston et al (1995) Pharmacological analysis of 4-carboxyphenylglycine derivatives: comparison of effects mGluR1α and mGluR5a subtypes. *Neuropharmacology* **34** 887. PMID: 8532170.

Hayashi et al (1994) Analysis of agonist and antagonist activities of phenylglycine derivatives for different cloned metabotropic glutamate receptor sub-types. *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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