

Certificate of Analysis

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Product Name: (S)-4-Carboxyphenylglycine

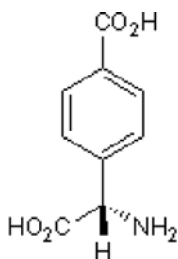
Catalog No.: 0323

Batch No.: 19

CAS Number: 134052-73-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₉NO₄
Batch Molecular Weight: 195.17
Physical Appearance: Off White solid
Solubility: 1eq. NaOH to 100 mM with gentle warming
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.58 (Pyridine:Acetic acid:Water:Butanol [3:8:11:14])
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +157.7 (Concentration = 1, Solvent = 6N HCl)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	55.39	4.65	7.18
Found	55.57	4.56	7.19

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

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Product Name: (S)-4-Carboxyphenylglycine

Catalog No.: 0323

Batch No.: 19

CAS Number: 134052-73-6

Description:

(S)-4-Carboxyphenylglycine is a competitive group I metabotropic glutamate receptor antagonist, with selectivity for mGlu_{1a/1a} over mGlu_{5a/5b}.

Physical and Chemical Properties:

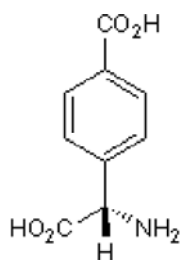
Batch Molecular Formula: C₉H₉NO₄

Batch Molecular Weight: 195.17

Physical Appearance: Off White solid

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM with gentle warming

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:

Doherty et al (1999) Antagonist activity of α-substituted 4-carboxyphenylglycine analogues at group I metabotropic glutamate receptors expressed in CHO cells. *Br.J.Pharmacol.* **126** 205. PMID: 10051137.

Brabet et al (1995) Phenylglycine derivatives discriminate between mGluR1-and mGluR5-mediated responses. *Neuropharmacology* **34** 895. PMID: 8532171.

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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