

Product Name: (RS)-MCPG

Catalog No.: 0336

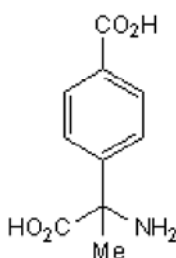
Batch No.: 13

CAS Number: 146669-29-6

IUPAC Name: (RS)- α -Methyl-4-carboxyphenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₁NO₄
Batch Molecular Weight: 209.2
Physical Appearance: White solid
Solubility: 1.1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.67 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
Chiral HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.41	5.3	6.7
Found	57.09	5.33	6.73

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

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Description:

Non-selective group I/group II metabotropic glutamate receptor antagonist. S-enantiomer and Sodium Salt also available.

Physical and Chemical Properties:

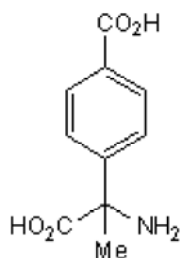
Batch Molecular Formula: C₁₀H₁₁NO₄

Batch Molecular Weight: 209.2

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1.1eq. NaOH to 100 mM

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:

Joly et al (1995) Molecular, functional and pharmacological characterization of the metabotropic glutamate receptor Type 5 splice variants: comparison with mGluR1. *J.Neurosci.* **15** 3970. PMID: 7751958.

Collingridge and Watkins (1994) Phenylglycine derivatives as metabotropic glutamate receptor antagonists. *TiPS* **15** 333. PMID: 7992387.

Eaton et al (1993) Competitive antagonism at metabotropic glutamate receptors by (S)-4-carboxyphenylglycine (CPG) and (RS)- α -methyl-4-carboxyphenylglycine (MCPG). *Eur.J.Pharmacol.* **244** 195. PMID: 8381746.

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