

Product Name: (RS)-MCPG disodium salt

Catalog No.: 3696

Batch No.: 2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₉NNa₂O₄· $\frac{1}{4}$ H₂O

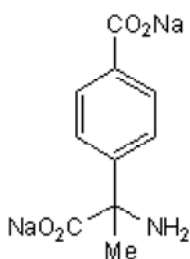
Batch Molecular Weight: 257.66

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

Chiral HPLC: Shows Racemic% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	46.61	3.72	5.44
Found	46.87	3.63	5.65

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

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

Description:

Sodium salt of (RS)-MCPG, a non-selective group I/group II metabotropic glutamate receptor antagonist. S-enantiomer also available.

Physical and Chemical Properties:

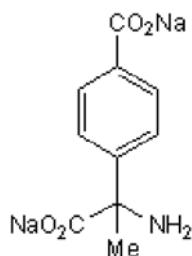
Batch Molecular Formula: C₁₀H₉NNa₂O₄· $\frac{1}{4}$ H₂O

Batch Molecular Weight: 257.66

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water 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 antagonist at metabotropic glutamate receptors by (S)-4-carboxyphenylglycine (CPG) and (RS)- α -methyl-4-carboxyphenylglycine (MCPG). *Eur.J.Pharmacol.Mol.Pharmacol.Sect.* **244** 195.

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