bio-techne
TOCRIS

Print Date: May 26th 2023

# Certificate of Analysis

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**Product Name:** **(*RS*)-MCPG disodium salt** **Catalog No.: 3696** **Batch No.: 3**

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

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** $C_{10}H_9NNa_2O_4.1¼H_2O$

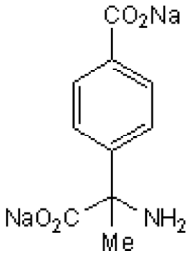
**Batch Molecular Weight:** 275.68

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**




## 2. ANALYTICAL DATA

**HPLC:** Shows 100.0% purity

**$^1$H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

| | Carbon | Hydrogen | Nitrogen |
|---|---|---|---|
| Theoretical | 43.57 | 4.2 | 5.08 |
| Found | 43.21 | 3.8 | 5 |



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**Product Name:** **(*RS*)-MCPG disodium salt** **Catalog No.: 3696** **3**

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

**Description:**

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

**Physical and Chemical Properties:**

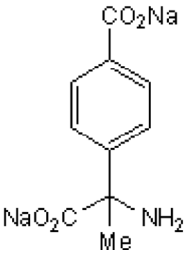
Batch Molecular Formula: $C_{10}H_9NNa_2O_4.1¼H_2O$

Batch Molecular Weight: 275.68

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.