

Certificate of Analysis

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Product Name: E4CPG

Catalog No.: 1009

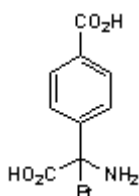
Batch No.: 3

CAS Number: 170846-89-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₃NO₄
Batch Molecular Weight: 223.23
Physical Appearance: White solid
Solubility: 1.1eq. NaOH to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.38 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])
Melting Point: At 286°C
HPLC: Shows >99.9% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	59.19	5.87	6.27
Found	59.02	5.85	6.33

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

Product Information

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Product Name: E4CPG

Catalog No.: 1009

Batch No.: 3

CAS Number: 170846-89-6

IUPAC Name: (R*S*)- α -Ethyl-4-carboxyphenylglycine

Description:

Novel group I/group II metabotropic glutamate receptor antagonist, more potent than (R*S*)-MCPG (Cat. No. 0336).

Physical and Chemical Properties:

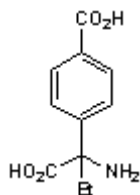
Batch Molecular Formula: C₁₁H₁₃NO₄

Batch Molecular Weight: 223.23

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:

Bedingfield *et al* (1995) Structure-activity relationships for a series of phenylglycine derivatives acting at metabotropic glutamate receptors (mGluRs). *Br.J.Pharmacol.* **116** 3323. PMID: 8719814.

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.

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