

Product Name: (R)-3,4-DCPG

Catalog No.: 1395

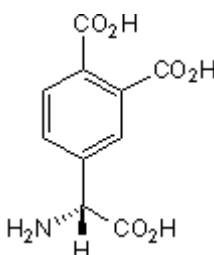
Batch No.: 2

CAS Number: 201730-10-1

IUPAC Name: (R)-3,4-Dicarboxyphenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₉NO₆·H₂O
Batch Molecular Weight: 257.2
Physical Appearance: White solid
Solubility: water to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.31 (Pyridine:Acetic acid:Water:Butanol [3:8:11:14])
Melting Point: Greater than 200°C(dec)
Chiral HPLC: Shows 96.7% purity
¹H NMR: Consistent with structure
Optical Rotation: [α]_D = -110 (Concentration = 0.5, Solvent = 6N HCl)
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	46.7	4.31	5.45
Found	47.08	4.25	5.42

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

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IUPAC Name: (R)-3,4-Dicarboxyphenylglycine

Description:

AMPA receptor antagonist with weak activity at NMDA receptors and little activity at kainate receptors. (RS)-3,4-DCPG (Cat. No. 1394) and (S)-3,4-DCPG (Cat. No. 1302) also available.

Physical and Chemical Properties:

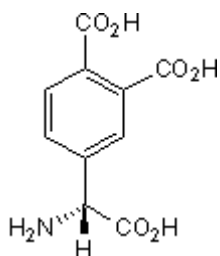
Batch Molecular Formula: C₁₀H₉NO₆.H₂O

Batch Molecular Weight: 257.2

Physical Appearance: White solid

Minimum Purity: >96%

Batch Molecular Structure:



References:

Thomas et al (1997) Dicarboxyphenylglycines antagonize AMPA- but not kainate-induced depolarizations in neonatal rat motoneurons. *Eur.J.Pharmacol.* **338** 111. PMID: 9455991.

Moldrich et al (2001) Anticonvulsant activity of 3,4-dicarboxyphenylglycines in DBA/2 mice. *Neuropharmacology* **40** 732. PMID: 11311902.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

CAUTION - Analysis shows that this material rapidly decomposes when dissolved in alkaline solution. Therefore we recommend that this product is dissolved in water.

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.

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