

Product Name: γ DGG

Catalog No.: 0112

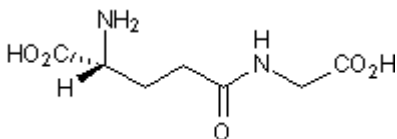
Batch No.: 17

CAS Number: 6729-55-1

IUPAC Name: γ -D-Glutamylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇H₁₂N₂O₅
Batch Molecular Weight: 204.18
Physical Appearance: White solid
Solubility: 1eq. NaOH to 100 mM
 water to 100 mM with gentle warming
 DMSO to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.11 (Pyridine:Acetic acid:Water:Butanol [3:8:11:22])
HPLC: Shows 99.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -23 (Concentration = 1, Solvent = 6N HCl)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.18	5.92	13.72
Found	41.21	5.89	13.63

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

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CAS Number: 6729-55-1

IUPAC Name: γ -D-Glutamylglycine

Description:

Broad spectrum glutamate receptor antagonist.

Physical and Chemical Properties:

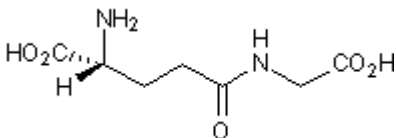
Batch Molecular Formula: C₇H₁₂N₂O₅

Batch Molecular Weight: 204.18

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM

water to 100 mM with gentle warming

DMSO 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:

Jones et al (1984) Structure-activity relations of dipeptide antagonists of excitatory amino acids. *Neuroscience* **13** 573. PMID: 6392929.

Aksenov et al (2005) Glutamate neurotransmission in the cerebellar interposed nuclei: involvement in classical conditioned eyeblinks and neuronal activity. *J.Neurophysiol.* **93** 44. PMID: 15331619.

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