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DATASHEET

gamma-DGG / γ-DGG (γ-D-glutamylglycine)

Product overview

Name	gamma-DGG / γ-DGG (γ-D-glutamylglycine)
Cat No	HB0680
Alternative names	Gamma-D-glutamylglycine
Biological action	Antagonist
Purity	>99%
Description	Broad spectrum glutamate antagonist

Images

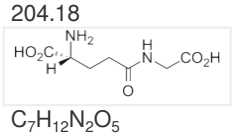
Biological Data

Biological description	Broad spectrum glutamate antagonist. Low affinity, rapidly dissociating competitive AMPA receptor antagonist which blocks AMPAR-mediated EPSCs. Also an non-selective NMDA receptor antagonist. Shows anti-depressant actions.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in NaOH(aq) (100mM, gentle warming) or water (100mM, gentle warming)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	γ-D-Glutamylglycine
Molecular Weight	204.18
Chemical structure	
Molecular Formula	$C_7H_{12}N_2O_5$
CAS Number	6729-55-1
PubChem identifier	6604701
SMILES	O=C(CC[C@@H](N)C(=O)O)NCC(=O)O

InChiKey	ACIJGUBIMXQCMF-SCSAIBSYSA-N

References

Involvement of ClC-3 chloride/proton exchangers in controlling glutamatergic synaptic strength in cultured hippocampal neurons.

Guzman RE *et al* (2014) Front Cell Neurosci 8
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Glutamate neurotransmission in the cerebellar interposed nuclei: involvement in classically conditioned eyeblinks and neuronal activity.

Aksenov DP *et al* (2005) J Neurophysiol 93(1)
PubMedID 15331619

Depressant actions of gamma-D-glutamylaminomethyl sulfonate (GAMS) on amino acid-induced and synaptic excitation in the cat spinal cord.

Davies J *et al* (1985) Brain Res 327(1-2)
PubMedID 3838689