

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellowbio.com



# DATASHEET

## gamma-DGG / $\gamma$ -DGG ( $\gamma$ -D-glutamylglycine)

### Product overview

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

### Images



### Biological Data

<b>Biological description</b>	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

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

### Chemical Data

<b>Chemical name</b>	$\gamma$ -D-Glutamylglycine
<b>Molecular Weight</b>	204.18
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>7</sub> H <sub>12</sub> N <sub>2</sub> O <sub>5</sub>
<b>CAS Number</b>	6729-55-1
<b>PubChem identifier</b>	6604701
<b>SMILES</b>	O=C(CC[C@@H](N)C(=O)O)NCC(=O)O

## References

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

Guzman RE *et al* (2014) *Front Cell Neurosci* 8

**PubMedID** [24904288](#)

### 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](#)

---