

## Recombinant Human GRIA3

Cat. No. GRIA3-27524TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment of Human Glutamate receptor 3 with N-Terminal proprietary tag. Mol Wt 36.63 kDa inclusive of tag.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	<p>Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. These receptors are heteromeric protein complexes composed of multiple subunits, arranged to form ligand-gated ion channels. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. The subunit encoded by this gene belongs to a family of AMPA (alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate)-sensitive glutamate receptors, and is subject to RNA editing (AGA-&gt;GGA; R-&gt;G). Alternative splicing at this locus results in different isoforms, which may vary in their signal transduction properties.</p>
<b>Molecular Weight</b>	36.630kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	Proprietary Purification

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<b>Storage buffer</b>	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
<b>Storage</b>	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	SLLGHYKWEKVFVYLYDTERGFSILQAIMEAAVQNNWQVTARSVGNIKDVQEFRRRIIE EMDRRQEKRYLIDCEVERINTILEQVVILGKHSRGGYHYMLANL
<b>Sequence Similarities</b>	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA3 subfamily.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GRIA3 glutamate receptor, ionotropic, AMPA 3 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">GRIA3</a>
<b>Synonyms</b>	GRIA3; glutamate receptor, ionotropic, AMPA 3; GLUR3; glutamate receptor 3; GLURC; MRX94;
<b>Gene ID</b>	<a href="#">2892</a>
<b>mRNA Refseq</b>	<a href="#">NM_000828</a>
<b>Protein Refseq</b>	<a href="#">NP_000819</a>
<b>MIM</b>	<a href="#">305915</a>
<b>Uniprot ID</b>	<a href="#">P42263</a>
<b>Chromosome Location</b>	Xq25

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**Pathway**

Activation of AMPA receptors, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; Glutamate Binding, Activation of AMPA Receptors and Synaptic Plasticity, organism-specific biosystem;

**Function**

PDZ domain binding; alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate selective glutamate receptor activity; extracellular-glutamate-gated ion channel activity; ion channel activity; receptor activity;

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