

## Recombinant Human GRIA2 protein, His & T7-tagged

Cat. No. GRIA2-1351H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human GRIA2 aa. (Asn25~Ala543 (Accession# P42262) fused with N-terminal His & T7 tag was produced in E. coli cells.

**Species** Human

**Source** E.coli

**ProteinLength** Asn25~Ala543

**Description** Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to a family of glutamate receptors that are sensitive to alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA), and function as ligand-activated cation channels. These channels are assembled from 4 related subunits, GRIA1-4. The subunit encoded by this gene (GRIA2) is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene.

**Form** Freeze-dried powder

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<b>Molecular Mass</b>	Predicted Molecular Mass: 62.0kDa
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)
<b>Purity</b>	>90%
<b>Characteristic</b>	The isoelectric point is 6.2.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
<b>Reconstitution</b>	Reconstitute in sterile PBS, pH7.2-pH7.4.

## GENE INFORMATION

<b>Gene Name</b>	GRIA2 glutamate ionotropic receptor AMPA type subunit 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	GRIA2
<b>Synonyms</b>	GRIA2; glutamate ionotropic receptor AMPA type subunit 2; GLUR2; GLURB; GluA2; HBGR2; GluR-K2; glutamate receptor 2; AMPA-selective glutamate receptor 2; gluR-2; gluR-B; glutamate receptor B flip isoform; glutamate receptor, ionotropic, AMPA 2

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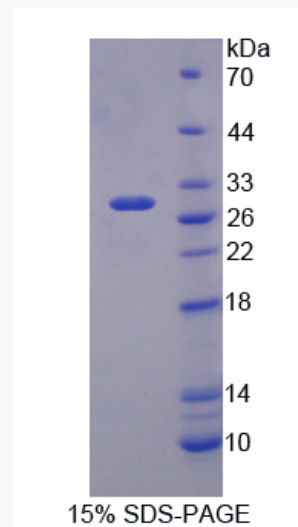
**Gene ID** 2891

**mRNA Refseq** NM\_000826.3

**Protein Refseq** NP\_000817.2

**UniProt ID** P42262

**SDS-PAGE**



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