

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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Molecular Mass	Predicted Molecular Mass: 62.0kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>90%
Characteristic	The isoelectric point is 6.2.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	GRIA2 glutamate ionotropic receptor AMPA type subunit 2 [Homo sapiens (human)]
Official Symbol	GRIA2
Synonyms	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

