

Recombinant Human GRIA2 Protein, His-tagged, OVA Conjugated

Cat. No. GRIA2-2813H Lot. No. (See product label)

SPECIFICATION

Product Overview OVA Conjugated Recombinant Human GRIA2 Protein (Ile878-Lys882) fused with a N-His tag.

Species Human

Source Protein Conjugation

ProteinLength Ile878-Lys882

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.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 5 kDa
Purity	> 90%
Applications	Immunogen; SDS-PAGE; WB.
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 centigrade 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 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.
Conjugation	OVA

GENE INFORMATION

Gene Name	GRIA2 glutamate receptor, ionotropic, AMPA 2 [Homo sapiens]
Official Symbol	GRIA2
Synonyms	GRIA2; glutamate receptor, ionotropic, AMPA 2; GLUR2; glutamate receptor 2; GluA2; GLURB; gluR-2; gluR-B; AMPA-selective glutamate receptor 2; HBGR2; GluR-K2;

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Gene ID	2891
mRNA Refseq	NM_000826
Protein Refseq	NP_000817
MIM	138247
UniProt ID	P42262

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