

Recombinant Human GRIA1

Cat. No. GRIA1-29069TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 201-300 of Human Glutamate Receptor 1 with a proprietary tag; Predicted MWt 36.63.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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 with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	Widely expressed in brain.
Biological activity	useful for Antibody Production and Protein Array
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.79% Tris HCl, 0.31% GlutathioneNote: Glutathione is reduced
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	VVDCESERLNAILGQIIKLEKNGIGYHYILANLGFMDIDLNKFKESGANVTGFQLVNYTDTIPAKIMQQWKNSDARDHTRVDWKRPKYTSALTYDGVKVM
Sequence Similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIA1 subfamily.

GENE INFORMATION

Gene Name	GRIA1 glutamate receptor, ionotropic, AMPA 1 [Homo sapiens]
Official Symbol	GRIA1
Synonyms	GRIA1; glutamate receptor, ionotropic, AMPA 1; GLUR1; glutamate receptor 1; GLURA;
Gene ID	2890
mRNA Refseq	NM_000827
Protein Refseq	NP_000818
MIM	138248
Uniprot ID	P42261

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Chromosome Location	5q33
Pathway	Activation of AMPA receptors, organism-specific biosystem; Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem; Dopaminergic synapse, 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; glutamate receptor activity; ion channel activity;

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