

Recombinant Human GRIA4 Protein, His&SUMO-tagged

Cat. No. GRIA4-954H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRIA4 Protein (Arg385-Pro542) with His&SUMO tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Arg385-Pro542
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 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->GGA; R->G). Alternative splicing of this gene results in transcript variants encoding different isoforms, which may vary in their signal transduction properties. Some haplotypes of this gene show a positive association with schizophrenia.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.4 kDa; Accurate Molecular Mass: 35 kDa
Purity	> 95%

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Applications	Positive Control; 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	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GRIA4 glutamate receptor, ionotropic, AMPA 4 [Homo sapiens (human)]
Official Symbol	GRIA4
Synonyms	GRIA4; glutamate receptor, ionotropic, AMPA 4; GLUR4, glutamate receptor, ionotropic, AMPA 4; glutamate receptor 4; GluA4; GLURD; gluR-4; gluR-D; AMPA-selective glutamate receptor 4; glutamate receptor, ionotropic, AMPA 4; GLUR4; GLUR4C;
Gene ID	2893
mRNA Refseq	NM_000829

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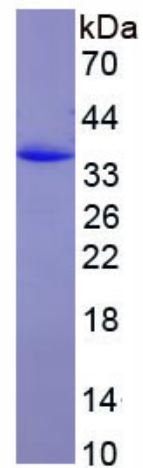
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Protein Refseq NP_000820

MIM 138246

UniProt ID P48058



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