

Recombinant Rat Gria2 Protein, His-tagged

Cat. No. Gria2-1588R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gria2 Protein (Asn413-Lys527) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Asn413-Lys527
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 (Q/R and R/G), which is thought to render the channels impermeable to Ca(2+), and to affect the kinetic aspects of these channels in rat brain. Alternative splicing, resulting in transcript variants encoding different isoforms (flip and flop), has been noted for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 16.5 kDa Accurate Molecular Mass: 16 kDa
Purity	> 90%

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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	Gria2 glutamate receptor, ionotropic, AMPA 2 [Rattus norvegicus (Norway rat)]
Official Symbol	Gria2
Synonyms	GRIA2; glutamate receptor, ionotropic, AMPA 2; glutamate receptor 2; glutamate receptor B; AMPA-selective glutamate receptor 2; GluA2; GluR2; gluR-B; GluR-K2;
Gene ID	29627
mRNA Refseq	NM_001083811
Protein Refseq	NP_001077280

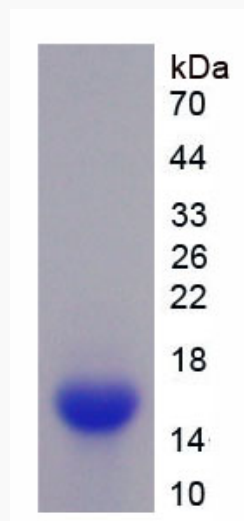
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