

Recombinant Rat Gria1 Protein, His&GST-tagged

Cat. No. Gria1-1587R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gria1 Protein (Gln37-Gly375) with N-His&GST tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Gln37-Gly375
Description	Enables several functions, including AMPA glutamate receptor activity; enzyme binding activity; and signaling receptor binding activity. Involved in several processes, including cellular response to organonitrogen compound; long-term memory; and modulation of chemical synaptic transmission. Located in several cellular components, including dendrite; endosome membrane; and postsynaptic density. Part of AMPA glutamate receptor complex. Is active in glutamatergic synapse. Is integral component of postsynaptic density membrane and integral component of presynaptic membrane. Used to study hyperhomocysteinemia. Biomarker of epilepsy; hepatic encephalopathy; status epilepticus; and visual epilepsy. Orthologous to human GRIA1 (glutamate ionotropic receptor AMPA type subunit 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 70.0 kDa Accurate Molecular Mass: 65 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 90%
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 ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Gria1 glutamate receptor, ionotropic, AMPA 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Gria1
Synonyms	GRIA1; glutamate receptor, ionotropic, AMPA 1; glutamate receptor 1; GluR1; gluR-1; gluR-K1; glutamate receptor A; glutamate receptor subunit GluR1; AMPA-selective glutamate receptor 1; glutamate receptor, ionotropic, AMPA1 (alpha 1); GluA1; gluR-A;
Gene ID	50592
mRNA Refseq	NM_031608

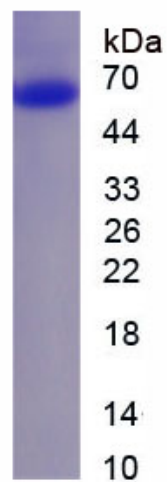
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Protein Refseq NP_113796

UniProt ID P19490



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