

Glutamate Receptor, Ionotropic, AMPA 1 Recombinant Protein | GRIA1 recombinant protein

Recombinant Glutamate Receptor, Ionotropic, AMPA 1 (GRIA1)

CATALOG # AAA150271	HOST E.coli	REACTIVITY Rattus norvegicus (Rat)	APPLICATIONS Western Blot, SDS-Page
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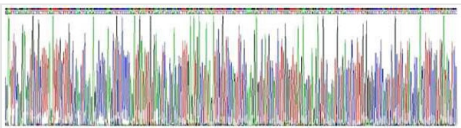
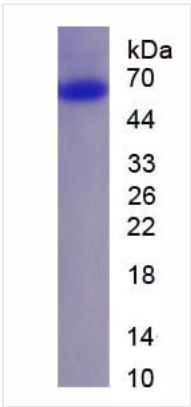
PRODUCT SYNONYMS

Glutamate Receptor; Ionotropic; AMPA 1; Recombinant Glutamate Receptor; AMPA 1 (GRIA1); GLUH1; GLUR1; GLURA; HBGR1; GluR-K1; AMPA-selective glutamate receptor 1; GRIA1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E.coli
Reactivity	Rattus norvegicus (Rat)
Purity/Purification	> 90%
Form/Format	20mM Tris, 150mM NaCl, pH8.0, containing 0.01% skl, 5%Trehalose.
Concentration	Original Concentration: 50ug/mL (varies by lot)
Applicable Applications for GRIA1 recombinant protein	WB (Western Blot), SDS-PAGE, Immunogen, Positive Control
Source	Prokaryotic expression
Residues	Gln37~Gly375
Tags	N-terminal His and GST Tag
Subcellular Location	Membrane, Golgi apparatus, Endosome
Traits	Freeze-dried powder
Predicted isoelectric point	7.9
Phenomenon explanation	The possible reasons that the actual band size differs from the predicted are as follows: 1. Splice variants: Alternative splicing may create different sized proteins from the same gene. 2. Relative charge: The composition of amino acids may affects the charge of the protein. 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc. 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form. 5. Polymerization of the target protein: Dimerization, multimerization etc.
Usage	Reconstitute in ddH2O to a concentration of 0.1-0.5 mg/mL. Do not vortex.
Preparation and Storage	Storage: Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: 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 degree C 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.

IMAGES



Gene Sequence
Gene Sequencing (extract)

SDS-PAGE

QEH AFRFALSQLT
EPPKLLPQID IVNISDSFEM TYRFSQFSK GYYAIFGFYE RRTVMNLTSE
CGALHVCFIT PSFPVDTSNQ FVLQRLPELQ EALISIIDHY KWQTFVYIYD
ADRGSLVLQR VLDTAAEKNW QVTAVNLT TEEGYRMLFQ DLEKKKERLV
VVDCESERLN AILGQIVKLE KNGIGVHYIL ANLGFMIDIL NKFESGANV
TGFQLVNYTD TIPARIHQWQ RTSDSRDHTR VDWKRPKYTS ALTYDGKVKM
AEAFQSLRRQ RIDISRGNNA GDCLANPAVP WQGGIDIQRA LQQVRFEGLT
GNVQFNEKGR RTNYTLHVIE MKHDG

Sequence

ADDITIONAL INFORMATION

Product Categories/Family for GRIA1 recombinant protein [Neuro science](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	167001419
NCBI GeneID	2890
NCBI GenBank Nucleotide #	NP_000818.2
UniProt Accession #	P42261
Molecular Weight	Predicted Molecular Mass: 70.0kDa Accurate Molecular Mass: 65kDa as determined by SDS-PAGE reducing conditions.
NCBI Official Full Name	glutamate receptor 1 isoform 1
NCBI Official Synonym Full Names	glutamate ionotropic receptor AMPA type subunit 1
NCBI Official Symbol	GRIA1
NCBI Official Synonym Symbols	GLUH1; GLUR1; GLURA; GluA1; HBGR1
NCBI Protein Information	glutamate receptor 1
UniProt Protein Name	Glutamate receptor 1
UniProt Gene Name	GRIA1
UniProt Synonym Gene Names	GLUH1; GLUR1; GluR-1; GluA1
UniProt Entry Name	GRIA1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.