

Recombinant Human GRIA2 Protein, His tagged

Cat. No. GRIA2-7955H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRIA2 Protein (25-543 aa) with C-His tag was expressed in Baculovirus-Insect cells.
Species	Human
Source	Insect cells
ProteinLength	25-543 aa
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 (CAG-> CGG; Q-> R) within the second transmembrane domain, which is thought to render the channel impermeable to Ca(2+). Human and animal studies suggest that pre-mRNA editing is essential for brain function, and defective GRIA2 RNA editing at the Q/R site may be relevant to amyotrophic lateral sclerosis (ALS) etiology. Alternative splicing, resulting in transcript variants encoding different isoforms, (including the flip and flop isoforms that vary in their signal transduction properties), has been noted for this gene.
Source	Insect cells

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Species	Human
Tag	C-His
Molecular Weight	59 kDa
AA Sequence	MNSIQIGGLFPRGADQEYSAFRVGMVQFSTSEFRLTPHIDNLEVANSFAVTNAFCSQ FSRGVYAIFGFYDKKSVNTITSFCGTLHVSFITPSFPTDGTHPFVIQMRPDLKGALLSL IEYYQWDKFAYLYDSDRGLSTLQAVLDSAAEKKWQVTAINVGNINNDKKDEMYRSLF QDLELKKERRVILDCERDKVNDIVDQVITIGKHKYHYIIANLGFTDGDLLKIQFGGA NVSGFQIVDYDDSLVSKFIERWSTLEEKEYPGAHTTTIKYTSALTYDAVQVMTEAFRN LRKQRIEISRRGNAGDCLANPAVPWGQGVEIERALKQVQVEGLSGNIKFDQNGKRIN YTINIMELKTNGPRKIGYWSEVDKMMVTLTELPNGNDTSGLENKTVVTTILESPYVM MKKNHEMLEGNERYEGYCVDLAAEIAKHCGFKYKLTIVGDGKYGARDADTKIWNGM VGELVYGKADIAIAPLTITLVREEVIDFSKPFMSLGISIMIKKPQKSKPGVFSFLDPLAH HHHHHHH
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Sterile PBS, pH7.4, 10% Glycerol, 5% Trehalose, 0.05% SKL
Concentration	1 mg/mL by Bradford

GENE INFORMATION

Gene Name GRIA2 glutamate receptor, ionotropic, AMPA 2 [Homo sapiens (human)]

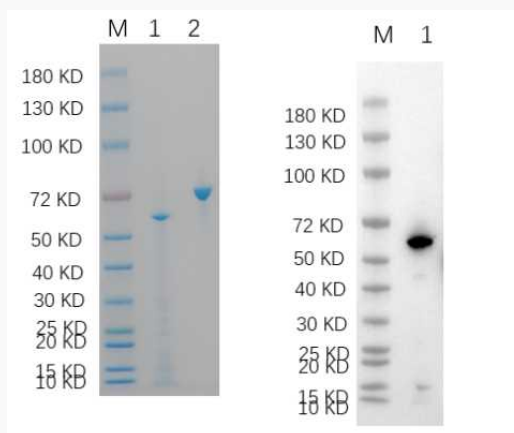
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Official Symbol	GRIA2
Synonyms	GRIA2; glutamate receptor, ionotropic, AMPA 2; GLUR2; glutamate receptor 2; GluA2; GLURB; gluR-2; gluR-B; AMPA-selective glutamate receptor 2; HBGR2; GluR-K2
Gene ID	2891
mRNA Refseq	NM_000826
Protein Refseq	NP_000817
MIM	138247
UniProt ID	P42262

**Reducing 4%-20%
SDS-PAGE (CBB
stained) and WB
(Anti-His Mouse
Monoclonal
Antibody) analysis
profiles of purified
GRIA2.**



1. GRIA2
2. BSA

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