

Active Recombinant Full Length Human GRIA1 Protein, C-Flag-tagged

Cat. No. GRIA1-236HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GRIA1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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 with multiple subunits, each possessing transmembrane regions, and all arranged to form a ligand-gated ion channel. The classification of glutamate receptors is based on their activation by different pharmacologic agonists. This gene belongs to a family of alpha-amino-3-hydroxy-5-methyl-4-isoxazole propionate (AMPA) receptors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	In vitro ubiquitination assay substrate
Molecular Mass	101.3 kDa
AA Sequence	MQHIFAFFCTGFLGAVVGANFPNNIQIGGLFPNQSQEHAAFRFSQLTEPPKLLP QIDIVNISDSFEM TYRFCSQFSKGVYAIFGFYERRTVNMLTSFCGALHVCFITPSFPV

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DTSNQFVLQLRPELQDALISIIDHY KWQKFVYIYDADRGLSVLQKVLDTAAEKNWQV
TAVNILTTTEEGYRMLFQDLEKKKERLVVDCESERLN AILGQIIKLEKNGIGYHYILA
NLGFMDIDLNKFKESGANVTGFQLVNYTDTIPAKIMQQWKNSDARDHTR VDWKRP
KYTSALTYDGVKVMMAEFQSLRRQRIDISRRGNAGDCLANPAVPWGQGIDIQRALQ
QVRFEGLT GNVQFNEKGRRNTNYTLHVIEMKHDGIRKIGYWNEDDKFVPAATDAQA
GGDNSSVQNRTYIVTTILEDPYV MLKKNANQFEGNDRYEGYCVELAAEIAKHVGYS
YRLEIVSDGKYGARDPDTKAWNGMVGELVYGRADVAV APLTITLVREEVIDFSKPF
MSLGISIMIKKPQKSKPGVFSFLDPLAYEIMWCIVFAYIGVSVVLFLVSF SPYEWHS
EEFEGRDQTTSDQSNEFGIFNSLWFSLGAFMQQGCDISPRSLSGRIVGGVWWFFT
LIISSY TANLAAFLTVERMVSPIESAEDLAKQTEIAYGTLEAGSTKEFFRRSKIAVFEK
MWTYMKSAEPSVFVRTT EEGMIRVRKSKGKYAYLLESTMNEYIEQRKPCDTMKVG
GNLDSKGYGIATPKGSALRGPVNLAVLKLSEQ GVLDKLKSKWWYDKGECGSKDSG
SKDKTSALSLSNVAGVFYILIGGLGLAMLVALIEFCYKSRSESKRMK GFCLIPQQSIN
EAIRTSTLPRNSGAGASSGGSGENGRVVSDFPKSMQSIPCMSSHSSGMPLGATGL
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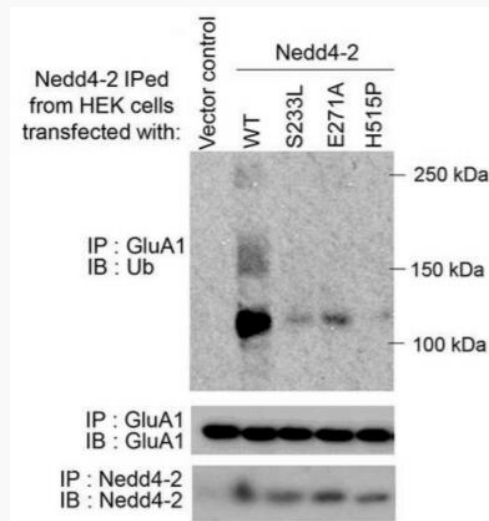
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Protein Pathways	Amyotrophic lateral sclerosis (ALS), Long-term depression, Long-term potentiation, Neuroactive ligand-receptor interaction
Full Length	Full L.
GENE INFORMATION	
Gene Name	GRIA1 glutamate ionotropic receptor AMPA type subunit 1 [Homo sapiens (human)]
Official Symbol	GRIA1
Synonyms	GLUH1; GLUR1; GLURA; GluA1; HBGR1; MRD67; MRT76
Gene ID	2890
mRNA Refseq	NM_001114183.2
Protein Refseq	NP_001107655.1
MIM	138248
UniProt ID	P42261

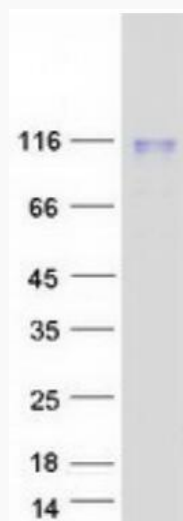
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Three epilepsy-associated missense mutations (S233L, E271A, H515P) of Nedd4-2 reduce GluA1 ubiquitination. Western blots of Ub and GluA1 after immunoprecipitation with anti-GluA1 antibody following in vitro ubiquitination with recombinant GluA1. HA-tagged wild-type (WT) or mutant Nedd4-2s used for in vitro ubiquitination were obtained from HEK cells transfected with one of the Nedd4-2s followed by immunoprecipitation with an antiNedd4-2 antibody.



Coomassie blue staining of purified GRIA1 protein.

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