

Recombinant Full Length Human GRIK2 Protein, C-Flag-tagged

Cat. No. GRIK2-1566HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GRIK2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	<p>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 the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. The subunit encoded by this gene is subject to RNA editing at multiple sites within the first and second transmembrane domains, which is thought to alter the structure and function of the receptor complex. Alternatively spliced transcript variants encoding different isoforms have also been described for this gene. Mutations in this gene have been associated with autosomal recessive cognitive disability.</p>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	98.9 kDa
AA Sequence	<p>MKIIFPILSNPVFRRRTVKLLLCLLWIGYSQGTTHVLRFGGIFEYVESGPMGAEELAFRF AVNTINRNRTL LPNTTLTYDTQKINLYDSFEASKKACDQLSLGVAAIFGPHSSSANA VQSICNALGVPHIQTRWKHQVSD NKDSFYVSLYPDFSSLSRAILDVQFFKWKTVTV</p>

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VYDDSTGLIRLQELIKAPSRYNLRLKIRQLPADTKD AKPLLKEMKRGKEFHVIFDCSH
 EMAAGILKQALAMGMMTEYYHYIFTTLDFALDVEPYRYSGVNMGTGFR ILNTENTQV
 SSIIEKWSMERLQAPPKPDGGLDGFMTTDAALMYDAVHVSVAVQQFPQMTVSSL
 QCNRH KPWRFGTRFMSLIKEAHWEGLTGRITFNKTNGLRDLDVVISLKEEGLEKI
 GTWDPASGLNMTESQKKG PANITDSLNRSLIVTTILEEPYVLFKKS DKPLYGNDRF
 EGYCIDLLRELSTILGFTYEIRLVEDGKYGA QDDANGQWNGMVRELIDHKADLAVAP
 LAITYVREKVIDFSKPFMTLGISILYRKPNGTNPVGFVFLNPLS PDIWMYVLLAYLGVS
 CVLFIARFSPYEWYNPHPCNPDSVVENNFTLLNSFWFGV GALMRQGSELMPKA
 LSTRIVGGIWWFFTLIISSYTANLAAFLTVERMESPIDSAADLAKQTKIEYGAVEDGAT
 MTFKSKIS TYDKMWAFMSSRRQSVLVKSNEEGIQRVLTSDYAFLMESTTIEFVTQ
 RNCNLQIGGLIDSKGYGVGTPM GSPYRDKITIAILQLQEEGKLHMMKEKWWRGNG
 CPEESKEASALGVQNIIGGIFIVLAAGLVLSVFAVG EFLYKSKNAQLEKRSFCSA
 MVEELRMSLKCQRRLKHKPQAPVIVKTEEVINMHTFNDRRLPGKETMATRTRPLEQ
 KLISEEDLAANDILDYKDDDDKV

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	Neuroactive ligand-receptor interaction

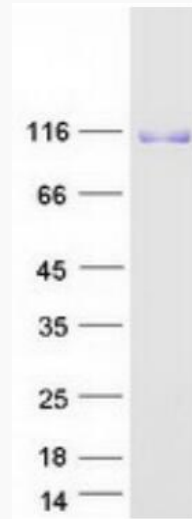
Full Length

Full L.

GENE INFORMATION

Gene Name	GRIK2 glutamate ionotropic receptor kainate type subunit 2 [Homo sapiens (human)]
Official Symbol	GRIK2
Synonyms	EAA4; GLR6; MRT6; GLUK6; GLUR6; GluK2; NEDLAS
Gene ID	2898
mRNA Refseq	NM_021956.5
Protein Refseq	NP_068775.1
MIM	138244
UniProt ID	Q13002

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Coomassie blue staining of purified GRIK2 protein.

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