

Recombinant Full Length Human GRIN1 Protein, C-Flag-tagged

Cat. No. GRIN1-418HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human GRIN1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The protein encoded by this gene is a critical subunit of N-methyl-D-aspartate receptors, members of the glutamate receptor channel superfamily which are heteromeric protein complexes with multiple subunits arranged to form a ligand-gated ion channel. These subunits play a key role in the plasticity of synapses, which is believed to underlie memory and learning. Cell-specific factors are thought to control expression of different isoforms, possibly contributing to the functional diversity of the subunits. Alternatively spliced transcript variants have been described.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	103.4 kDa
AA Sequence	MSTMRLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSW KIQLNATSVTHKPN AIQMALSVCEDLISSQVYAILVSHPTPNDFHTPTVSYTAGFY RIPVLGLTTRMSIYSDKSIHLSFLRT VPPYSHQSSVWFEMMRVYSWNHIILLVSDDE GRAAQKRLETLLERESKAKEVLQFDPGTKNVTALLME AKELEARVIILSASEDDAA TVYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAH ISDAV

 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

GVVAQAVHELLEKENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFN
 EDGDRKFAN YSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTR
 LKIVTIHQEPFVYVKPTLSDGTC KEEFTVNGDPVKKVICTGPNDTSPGSPRHVTPQC
 CYGFCIDLLIKLARTMNFTYEVHLVADGKFGTQERV NNSNKKEWNGMMGELLSGQ
 ADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQS TLWLLVGL
 SVHVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAP
 RSFSAR ILGMVWAGFAMIIVASYTANLAAFLVDRPEERITGINDPRLRNPSDKFIYAT
 VKQSSVDIYFRRQVELS TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFE
 ASQKCDLVTTGELFFRSGFGIGMRKDSPWKQ NVLSILKSHENGFMEDLDKTWVR
 YQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH KDARRKQMQLAF
 AAVNVWRKNLQDRKSGRAEPDPKKKATFRAITSTLASSFKRRRSSKDTSTGGGGA
 LQ
 NQKDTVLPRAIEREEGQLQLCSRHRESTRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

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	Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Calcium signaling pathway,

Huntington's disease, Long-term potentiation, Neuroactive ligand-receptor interaction

Full Length Full L.

GENE INFORMATION

Gene Name GRIN1 glutamate ionotropic receptor NMDA type subunit 1 [Homo sapiens (human)]

Official Symbol GRIN1

Synonyms NR1; MRD8; GluN1; NMDA1; DEE101; NDHMSD; NDHMSR; NMD-R1; NMDAR1

Gene ID 2902

mRNA Refseq NM_007327.4

Protein Refseq NP_015566.1

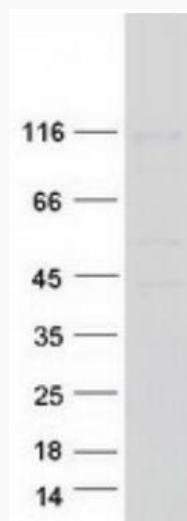
MIM 138249

UniProt ID Q05586

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Coomassie blue staining of purified GRIN1 protein.

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