

Recombinant Full Length Human GRIN1 Protein

Cat. No. GRIN1-5664HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human GRIN1 full-length ORF (AAI56098.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	419 amino acids
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. [provided by RefSeq]
Form	Liquid
Molecular Mass	103.2 kDa
AA Sequence	MSTMRLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSW KIQLNATSVTHKPNAIQMALSVCEDLISSQVYAILVSHPPTPNDHFTPTPVSYTAGFY RIPVLGLTTRMSIYSDKSIHLSFLRTPPPYSHQSSVWFEMMRVYSWNHIILLVSDDHE GRAAQKRLETLLERESKAIEKVLQFDPGTKNVTALLMEAKELEARVIILSASEDDAAT

 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

VYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAHISDAVGV
 VAQAVHELLEKENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNED
 GDRKFANYSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKI
 VTIHQEPFVYVKPTLSDGTCKEFTVNGDPVKKVICTGPNDTSPGSPRHVTPQCCY
 GFCIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKEWNGMMGELLSGQAD
 MIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQSTLWLLVGLSV
 HVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAPRS
 FSARILGMVWAGFAMIIVASYTANLAAFLVLDREPERITGINDPRLRNPSPDKFIYATVK
 QSSVDIYFRRQVELSTMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFEASQ
 KCDLVTTGELFFRSGFGIGMRKDSPPWKQNVLSILKSHENGFMEDLTKTWVRYQEC
 DSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRHKDARRKQMQLAFAAVN
 VWRKNLQDRKSGRAEPDPKKKATFRITSTLASSFKRRRSSKDTSTGGGRGALQN
 QKDTVLPRAIEREEGQLQLCSRHRES

Applications
 Antibody Production
 Functional Study
 Compound Screening

Notes
 Best use within three months from the date of receipt of this protein.

Storage
 Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name
 GRIN1 glutamate receptor, ionotropic, N-methyl D-aspartate 1 [Homo sapiens]

Official Symbol
 GRIN1

Synonyms
 GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; NMDAR1; glutamate

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[NMDA] receptor subunit zeta-1; GluN1; NMD-R1; glutamate [NMDA] receptor subunit zeta 1; N-methyl-D-aspartate receptor subunit NR1; N-methyl-D-aspartate receptor channel, subunit zeta-1; NR1; MRD8; NMDA1;

Gene ID [2902](#)

mRNA Refseq [NM_000832](#)

Protein Refseq [NP_000823](#)

MIM [138249](#)

UniProt ID [Q05586](#)

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