

Recombinant Human GRIN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. GRIN1-6404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GRIN1 MS Standard C13 and N15-labeled recombinant protein (NP_000823) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	99.31 kDa
AA Sequence	MSTMRLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSW KIQLNATSVTHKPNAIQMALSVCEDLISSQVYAILVSHPTPNDFHTPTPVSYTAGFY RIPVLGLTTRMSIYSDKSIHLSFLRTVPPYSHQSSVWFEMMRVYSWNHIILLVSDDE GRAAQKRLETLLERESKAIEVLQFDPGTKNVTALLMEAKELEARVIILSASEDDAAT VYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAHISDAVGV VAQAVHELLEKENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNED

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GDRKFANYSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKI
 VTIHQEPFVYVKPTLSDGTCKEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCY
 GFCIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKEWNGMMGELLSGQAD
 MIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQSTLWLLVGLSV
 HVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAPRS
 FSARILGMVWAGFAMIIVASYTANLAAFLVDRPEERITGINDPRLRNPSDKFIYATVK
 QSSVDIYFRRQVELSTMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFEASQ
 KCDLVTTGELFFRSGFGIGMRKDSPWKQNVLSILKSHENGFMEDLDKTVWRYQEC
 DSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRHKDARRKQMQLAFAAVN
 VWRKNLQQYHPTDITGPLNLSDPSVSTVTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

Official Symbol GRIN1

Synonyms GRIN1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; NMDAR1; glutamate [NMDA] receptor subunit zeta-1; GluN1; NMD-R1; glutamate [NMDA] receptor subunit

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zeta 1; N-methyl-D-aspartate receptor subunit NR1; N-methyl-D-aspartate receptor channel, subunit zeta-1; NR1; MRD8; NMDA1;

Gene ID 2902

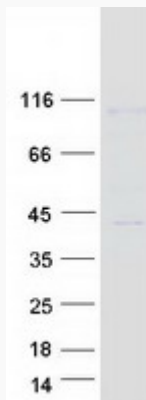
mRNA Refseq NM_000832

Protein Refseq NP_000823

MIM 138249

UniProt ID Q05586

SDS-PAGE



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