

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

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

## SPECIFICATION

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

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GDRKFANYSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKI  
 VTIHQEPFVYVKPTLSDGTCKEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCY  
 GFCIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKEWNGMMGELLSGQAD  
 MIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQSTLWLLVGLSV  
 HVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAPRS  
 FSARILGMVWAGFAMIIVASYTANLAAFLVLDLDRPEERITGINDPRLRNPSDKFIYATVK  
 QSSVDIYFRRQVELSTMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFEASQ  
 KCDLVTTGELFFRSGFGIGMRKDSPWKQNVLSILKSHENGFMEDLDKTWVRYQEC  
 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

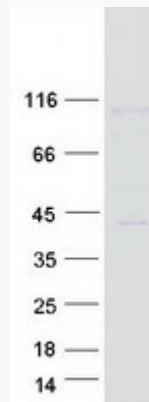
**mRNA Refseq** NM\_000832

**Protein Refseq** NP\_000823

**MIM** 138249

**UniProt ID** Q05586

**SDS-PAGE**



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