

Product datasheet for TP319368

OriGene Technologies, Inc.

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NMDAR1 (GRIN1) (NM_000832) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human glutamate receptor, ionotropic, N-methyl D-aspartate 1

(GRIN1), transcript variant NR1-1, 20 µg

Species: Human
Expression Host: HEK293T

Expression cDNA Clone >RC219368 representing NM_000832 or AA Sequence: Red=Cloning site Green=Tags(s)

Q

MSTMRLLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSWKIQLNATSVTHKPN AIQMALSVCEDLISSQVYAILVSHPPTPNDHFTPTPVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRT VPPYSHQSSVWFEMMRVYSWNHIILLVSDDHEGRAAQKRLETLLEERESKAEKVLQFDPGTKNVTALLME AKELEARVIILSASEDDAATVYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAH ISDAVGVVAQAVHELLEKENITDPPRGCVGNTNIWKTGPLFKRVLMSSKYADGVTGRVEFNEDGDRKFAN YSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKIVTIHQEPFVYVKPTLSDGTC KEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCYGFCIDLLIKLARTMNFTYEVHLVADGKFGTQERV NNSNKKEWNGMMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQS TLWLLVGLSVHVVAVMLYLLDRFSPFGRFKVNSEEEEEDALTLSSAMWFSWGVLLNSGIGEGAPRSFSAR ILGMVWAGFAMIIVASYTANLAAFLVLDRPEERITGINDPRLRNPSDKFIYATVKQSSVDIYFRRQVELS TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFEASQKCDLVTTGELFFRSGFGIGMRKDSPWK

NVSLSILKSHENGFMEDLDKTWVRYQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH

KDARRKQMQLAFAAVNVWRKNLQQYHPTDITGPLNLSDPSVSTVV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 97.3 kDa

Concentration: >0.05 μg/μL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol





NMDAR1 (GRIN1) (NM_000832) Human Recombinant Protein - TP319368

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by

conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 000823

 Locus ID:
 2902

 UniProt ID:
 Q05586

 RefSeq Size:
 3902

 Cytogenetics:
 9q34.3

 RefSeq ORF:
 2655

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

Summary: 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

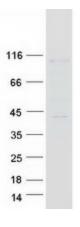
transcript variants have been described. [provided by RefSeq, Jul 2008]

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

Product images:



Coomassie blue staining of purified GRIN1 protein (Cat# TP319368). The protein was produced from HEK293T cells transfected with GRIN1 cDNA clone (Cat# [RC219368]) using MegaTran 2.0 (Cat# [TT210002]).