

Product Information

MemDX™ Membrane Protein Human GRIN1 (Glutamate ionotropic receptor NMDA type subunit 1) expressed in CHO for Antibody Discovery

Cat. No.: **MP0063Q**

This product is for research use only and is not intended for diagnostic use.

This product is a 61.2 kDa Human GRIN1 membrane protein expressed in CHO. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

GRIN1

Protein Length

Full-length

Protein Class

Druggable Genome, Ion Channels: Glutamate Receptors, Transmembrane

Molecular Weight

61.2 kDa

TMD

4

Sequence

MSTMRLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSWKIQLNATSVTHKPN
AIQMALSVCEDLISSQVYAILVSHPTPNDFHTPTPVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRT
VPPYSHQSSVWFEMMRVYSWNHIILLVSDDEGAAQKRLETLLERESKAQKVLQFDPGTKNVTALLME
AKELEARVILSASEDDAATVYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAH
ISDAVGVAQAVHELLENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFAN
YSIMNLQNRKLVQVGIYNGTHVIPNDRKIWPGETEKPRGYQMSTRLKIVTIHQEPFVYVKPTLSDGTC
KEEFTVNGDPVKKVICTGPNDTSPGSPRHPTVPQCCYGFCIDLLIKLARTMNFTYEVHLVADGKFGTQERV
NNSNKKWNGMGMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQS
TLWLLVGLSVHVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAPRSFSAR
ILGMVWAGFAMIIVASYTANLAFLVLDLDRPEERITGINDPRLRNPSDKFIYATVKQSSVDIYFRRQVELS
TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDASVLEFEASQKCDLVTTGELFFRSGFGIGMRKDSPWKQ
NVLSILKSHENGFMEDLDKTWVRYQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH
KDARRKQMQLAFAAVNVWRKNLQDRKSGRAEPDPKKKATFRAITSTLASSFKRRRSSKDTSTGGGRGALQ
NQKDTVLPRAIEREEGQLQLCSRHRES

Product Description

Expression Systems

CHO

Tag

C-DDK

Form

Powder

Purity

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

Buffer

PBS, pH 7.4, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target**Target Protein**

GRIN1

Full Name

Glutamate ionotropic receptor NMDA type subunit 1

Introduction

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.

Alternative Names

GluN1; MRD8; NDHMSD; NDHMSR; NMD-R1; NMDA1; NMDAR1; NR1; N-methyl-D-aspartate receptor channel, subunit zeta-1; N-methyl-D-aspartate receptor subunit NR1; glutamate [NMDA] receptor subunit zeta-1; glutamate receptor, ionotropic, N-methyl D-aspartate 1; Glutamate receptor ionotropic, NMDA 1

Gene ID

[2902](#)

UniProt ID

[Q05586](#)