

Product Information

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

Cat. No.: **MP0720J**

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

This product is a 103.4 kDa Human GRIN1 membrane protein expressed in HEK293T. 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

103.4 kDa

TMD

3

Sequence

MSTMRLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSKWIKLQNLATSVTHKPN
AIQMALSVCEDLISSQVYAILVSHPTPTNDHFTPTVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRT
VPPYSHQSSVWFEMMRVYSWNHIILLVSDDEGRAAQKRLETLLERESKAQKVLQFDPGTKNVTALLME
AKELEARVILSASEDDAATVYRAAAMLNMTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAH
ISDAVGVAQAVHELLENITDPPRGCVGNTNIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFAN
YSIMNLQNRKLVQVGIYNGTHVIPNDRKIWPGETEKPRGYQMSTRLKIVTIHQEPFVYVKPTLSDGTC
KEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCYGFCIDLLIKLARTMNFTYEVHLVADGKFGTQERV
NNSNKKKEWNGMMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRSTLDSFMQPFQS
TLWLLVGLSVHVVAVMLYLLDRFSPFGRFKVNSEEEEEEDALTSSAMWFSWGVLLNSGIGEGAPRSFSAR
ILGMVWAGFAMIIVASYTANLAFLVLDLDRPEERITGINDPRLRNPSDKFIYATVKQSSVDIYFRRQVELS
TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDASVLEFEASQKCDLVTTGELFFRSGFGIGMRKDSFWKQ
NVSLSILKSHENGFMEDLDKTWVRYQECDSRSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRH
KDARRKQMLAFAAVNVWRKNLQDRKSGRAEPDPKKKATFRAITSTLASSFKRRRSSKDTSTGGGRGALQ
NQKDTVLPRAIEREEGQLQLCSRHRES

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

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

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 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

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

Gene ID

[2902](#)

UniProt ID

[Q05586](#)