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Product Information

MemDX™ Membrane Protein Human GRIN1 (Glutamate ionotropic receptor NMDA type subunit 1) Full Length

Cat. No.: **MPC0566K**
This product is for research use only and is not intended for diagnostic use.

This product is a 105.3 kDa Human GRIN1 membrane protein expressed in HEK293. 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
Transporter; Ion channel

Molecular Weight
105.3 kDa

TMD
3

Sequence
MSTMRLLTLALLFSCSVARAACDPKIVNIGAVLSTRKHEQMFREAVNQAN
KRHGSWKIQLNATSVTHKPNAIQMALSVCEDLISSQVYAILVSHPPTPND
HFTPTPVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRTVPPYSHQSSV
WFEMMRVYSWNHIILLVSDDHEGRAAQKRLETLLEERESKAEKVLQFDPG
TKNVTALLMEAKELEARVIILSASEDDAATVYRAAAMLNMTGSGYVWLVG
EREISGNALRYAPDGILGLQLINGKNESAHISDAVGVVAQAVHELLEKEN
ITDPPRGCVGNTNIWKTGPLFKRVLMSSKYADGVTGRVEFNEDGDRKFAN
YSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGGETEKPRGYQMSTRLKI
VTIHQEPFVYVKPTLSDGTCKEEFTVNGDPVKKVICTGPNDTSPGSPRHT
VPQCCYGFCIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKEWNG
MMGELLSGQADMIVAPLTINNERAQYIEFSKPFKYQGLTILVKKEIPRST
LDSFMQPFQSTLWLLVGLSVHVVAVMLYLLDRFSPFGRFKVNSEEEEEDA
LTLSSAMWFSWGVLLNSGIGEGAPRSFSARILGMVWAGFAMIIVASYTAN
LAAFLVLDRPEERITGINDPRLRNPSDKFIYATVKQSSVDIYFRRQVELS
TMYRHMEKHNYESAAEAIQAVRDNKLHAFIWDSAVLEFEASQKCDLVTTG
ELFFRSGFGIGMRKDSPWKQNVSLSILKSHENGFMEDLDKTWVRYQECDS
RSNAPATLTFENMAGVFMLVAGGIVAGIFLIFIEIAYKRHKDARRKQMQL
AFAAVNVWRKNLQDRKSGRAEPDPKKKATFRAITSTLASSFKRRRSSKDT
STGGGRGALQNQKDTVLPRRAIEREEGQLQLCSRHRES

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Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

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; glutamate receptor ionotropic, NMDA 1; 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; GRIN1; Glutamate ionotropic receptor NMDA type subunit 1

Gene ID

2902

UniProt ID

Q05586

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