

Product Information

MemDX™ Membrane Protein Human GRIN2D (Glutamate ionotropic receptor NMDA type subunit 2D) Full Length

Cat. No.: **MPC0570K**

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

This product is a 143.7 kDa Human GRIN2D 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

GRIN2D

Protein Length

Full length

Protein Class

Transporter; Ion channel

Molecular Weight

143.7 kDa

TMD

3

Sequence

MRGAGGPRGPRGPAKMLLLALACASPFPEEAPGPGGAGGPGGGGLGGARP
LNVALVFSGPAYAAEAARLGPAAAAVRSPGLDVRPVALVLNGSDPRSLV
LQLCDLLSGLRVHGVVFEDDSRAPAVAPILDFLSAQTSLPIVAVHGGAAAL
VLTPKEKGSTFLQLGSSTEQQLQVIFEVLEEYDWTSTFVAVTTTRAPGHRAF
LSYIEVLTGSLVGWEHRGALTDPGAGEAVLSAQLRSVSAQIRLLFCAR
EEAEPVFRAAEEAGLTGSGYVWFMVGPQLAGGGGSGAPGEPPLPGGAPL
PAGLFAVRSAGWRDDLARRVAAGVAVVARGAQAALLRDYGFLELGHDCRA
QNRTHRGESLHRYFMNITWDNRDYSFNEDGFLVNPSLVVISLTRDRTWEV
VGSWEQQTLLRLKYPLWSRYGRFLQPVDQTQHLTVATLEERPFPVIVEPADP
ISGTCIRDSVPCRSQNLNRTHSPPPDAPRPEKRCCKGFCIDILKRLAHTIG
FSYDLYLVNTNGKHGKKIDGVWNGMIGEVFYQRADMAIGSLTINEERSEIV
DFSVPFVETGISVMVARSNGTVSPSAFLEPYSPAVWMMFVMCLTVVAVT
VFIFEYLSVPGYNRSLATGKRPGGSTFTIGKSIWLLWALVFNNVSVVENP
RGTTSKIMVLVWAFFAVIFLASYTANLAAFMIQEEYVDTVSGLSDRKFQR
PQEYQPLPKFGTVPNGSTEKNIRSNYPDMHSYMVRYNQPRVEEALTQLKA
GKLDAFIYDAAVLNYMARKDEGCKLVITIGSGKVFATTGYGIALHKGSRWK
RPIDLALLQLGLGDDEIEMLERLWLSGICHNDKIEVMSSKLDIDNMAGVFY
MLLVAMGLSLLVFAWEHLVYWRLRHCLGPTHMRMDFLLAFSRGMYSCCSAE
AAPPPAKPPPPQPLPSPAYPAPRPAPGPAPFVPRERASVDRWRRTKGAG

PPGGAGLADGFHRYYGPIEPQGLGLGLEARAAPRGAAAGRPLSPAAQPP
QKPPPSYFAIVRDKEPAEPPAGAFPGFSPAPPAAAAATAVGPPLCRLAF
EDESPPAPARWPRSDPESQPLLPGAGGAGGTGGAGGGAPAAPPCRAAP
PPCPYLDLESPSPDSESESLGGASLGGLEPWVWADFYPYAEERLGP
RYWSVDKLGGRAGSWDYLP
PPRSGPAAWHCRHCASLELLPPPRHLSCSHD
GLDGGWWAPPPPPWAAGPLPRRRARCGCPRSHPHRPRASHRTAAAAAPHH
HRHRAAGGWDLP
PPAPT
SRSLDLSSCPRAAPARRLTGPSRHARRCPHA
AHWGPPLPTASHRRHRGGDLGTRRGS
AHFSSLESEV

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

GRIN2D

Full Name

Glutamate ionotropic receptor NMDA type subunit 2D

Introduction

N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D).

Alternative Names

EB11; NR2D; DEE46; EIEE46; GluN2D; NMDAR2D; glutamate receptor ionotropic, NMDA 2D; N-methyl D-aspartate receptor subtype 2D; N-methyl-d-aspartate receptor subunit 2D; estrogen receptor binding CpG island; glutamate [NMDA] receptor subunit epsilon-4; glutamate receptor, ionotropic, N-methyl D-aspartate 2D; GRIN2D; Glutamate ionotropic receptor NMDA type subunit 2D

Gene ID

[2906](#)

UniProt ID

[Q15399](#)