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Product Information

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

Cat. No.: **MP1377J**
This product is for research use only and is not intended for diagnostic use.

This product is a 64.6 kDa Human GRIN1 membrane protein expressed in E.coli. 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
ECD (19-559aa)

Protein Class
Ion Channel

Molecular Weight
64.6 kDa

Sequence
RAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSWKIQLNATSVTHKPNAIQMALSVCEDLISSQVYAILVSHPPTPNDHFTPTP

Product Description

Expression Systems
E.coli

Tag
N-6xHis

Form
Liquid or Lyophilized powder

Reconstitution
Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration).

Purity

>90% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol
Lyophilized powder: Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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; Glutamate [NMDA] receptor subunit zeta-1; Glutamate receptor ionotropic N methyl D aspartate 1; Glutamate receptor ionotropic, N-methyl-D aspartate, subunit 1; glutamate receptor ionotropic, NMDA 1; Grin1; MRD8; N methyl D aspartate receptor; N methyl D aspartate receptor channel subunit zeta 1; N methyl D aspartate receptor subunit NR1; N-methyl-D-aspartate receptor subunit NR1; NMD-R1; NMDA 1; NMDA R1; NMDA receptor 1; NMDA1; NMDAR; NMDZ1_HUMAN; NR1

Gene ID

2902

UniProt ID

Q05586

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