

GRIN1 Protein, Human, Recombinant (His)

General Information

Synonyms:	Glutamate receptor ionotropic, NMDA 1;NMDA 1;Glutamate [NMDA] receptor subunit zeta-1; GRIN1;N-methyl-D-aspartate receptor subunit NR1 (NMD-R1;hNR1);NMDAR1;GluN1
Protein Construction:	19-559 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q05586
Molecular Weight:	64.6 kDa (predicted)
AA Sequence:	RAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSKWIKLQNLATSVTHKPNAIQMALSVCEDLISSQVYAIL VSHPTPNDFHTPTVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRTVPPYSHQSSVWFEMMRVYSWNHIILL VSDDEHGRAAQKRLLETLLERESKAQKVLQFDPGTKNVTALLMEAKELEARVIILSASEDDAATVYRAAAMLN MTGSGYVWLVGEREISGNALRYAPDGILGLQLINGKNESAHISDAVGVAQAVHELLEKENITDPPRGCVGNT NIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFANYSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPGG ETEKPRGYQMSTRLKIVTIHQEPFVYVKPTLSDGTCKEEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCYGF CIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKKEWNGMMGELLSGQADMIVAPLTINNERAQYIEFS KPFKYQGLTILVKKEIPRSTLDSFMQPFQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Component of NMDA receptor complexes that function as heterotetrameric, ligand-gated ion channels with high calcium permeability and voltage-dependent sensitivity to magnesium. Channel activation requires binding of the neurotransmitter glutamate to the epsilon subunit, glycine binding to the zeta subunit, plus membrane depolarization to eliminate channel inhibition by Mg(2+). Sensitivity to glutamate and channel kinetics depend on the subunit composition.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481