

## GRIN1 Protein, Rat, Recombinant (His)

## General Information

Synonyms:	GluN1;Grin1;Glutamate receptor ionotropic, NMDA 1;N-methyl-D-aspartate receptor subunit NR1 (NMD-R1);NMDA 1;Nmdar1;Glutamate [NMDA] receptor subunit zeta-1
Protein Construction:	19-559 aa
Species:	Rat
Expression Host:	E. coli
Accession:	P35439
Molecular Weight:	64.7 kDa (predicted)
AA Sequence:	RAACDPKIVNIGAVLSTRKHEQMFREAVNQANKRHGSKIQLNATSVTHKPNAIQMALSVCEDLISSQVYAIL VSHPTPNDFHTPTVSYTAGFYRIPVLGLTTRMSIYSDKSIHLSFLRTVPPYSHQSSVWFEMMRVYNWNHIL LVSDDEGGRAAQKRLETLLERESKAQKVLQFDPGKTNVTALLMEARELEARVIILSASEDDAATVYRAAAML NMTGSGYVWLVGEREISGNALRYAPDGIIGLQLINGKNESAHISDAVGVVAQAVHELLENITDPPRGCVGN TNIWKTGPLFKRVLMSKYADGVTGRVEFNEDGDRKFANYSIMNLQNRKLVQVGIYNGTHVIPNDRKIIWPG GETEKPRGYQMSTRKIVTIHQEPFVYVKPTMSDGTCKEFTVNGDPVKKVICTGPNDTSPGSPRHTVPQCCY GFCIDLLIKLARTMNFTYEVHLVADGKFGTQERVNNSNKKKEWNGMMGELLSGQADMIVAPLTINNERAQYIE FSKPFKYQGLTILVKKEIPRSTLDSFMQPFQ

## 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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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.

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