

Recombinant Human GRIN2B protein, His & GST-tagged

Cat. No. GRIN2B-1354H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRIN2B aa. (Ile35~Asp557 fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile35~Asp557
Description	This gene encodes a member of the N-methyl-D-aspartate (NMDA) receptor family within the ionotropic glutamate receptor superfamily. The encoded protein is a subunit of the NMDA receptor ion channel which acts as an agonist binding site for glutamate. The NMDA receptors mediate a slow calcium-permeable component of excitatory synaptic transmission in the central nervous system. The NMDA receptors are heterotetramers of seven genetically encoded, differentially expressed subunits including NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The early expression of this gene in development suggests a role in brain development, circuit formation, synaptic plasticity, and cellular migration and differentiation. Naturally occurring mutations within this gene are associated with neurodevelopmental disorders including autism spectrum disorder, attention deficit hyperactivity disorder, epilepsy, and schizophrenia.
Form	Freeze-dried powder
Molecular Mass	89kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 4.8.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200g/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	GRIN2B glutamate ionotropic receptor NMDA type subunit 2B [Homo sapiens (human)]
Official Symbol	GRIN2B

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Synonyms GRIN2B; glutamate ionotropic receptor NMDA type subunit 2B; MRD6; NR2B; hNR3; EIEE27; GluN2B; NMDAR2B; glutamate receptor ionotropic, NMDA 2B; N-methyl D-aspartate receptor subtype 2B; N-methyl-D-aspartate receptor subunit 3; NR3; glutamate [NMDA] receptor subunit epsilon-2; glutamate receptor subunit epsilon-2; glutamate receptor, ionotropic, N-methyl D-aspartate 2B

Gene ID [2904](#)

mRNA Refseq [NM_000834.4](#)

Protein Refseq [NP_000825.2](#)

UniProt ID [Q13224](#)

SDS-PAGE

