Recombinant Human GRIN2A protein, His-tagged

Cat. No. GRIN2A-1353H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GRIN2A aa. (Pro31~Ala555 fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Pro31~Ala555
Description	This gene encodes a member of the glutamate-gated ion channel protein family. The encoded protein is an N-methyl-D-aspartate (NMDA) receptor subunit. NMDA receptors are both ligand-gated and voltage-dependent, and are involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. These receptors are permeable to calcium ions, and activation results in a calcium influx into post-synaptic cells, which results in the activation of several signaling cascades. Disruption of this gene is associated with focal epilepsy and speech disorder with or without cognitive disability. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	63kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1μg (determined by the LAL method)

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Purity	>85%
Characteristic	The isoelectric point is 5.3.
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	200μg/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	GRIN2A glutamate ionotropic receptor NMDA type subunit 2A [Homo sapiens (human)]
Official Symbol	GRIN2A
Synonyms	GRIN2A; glutamate ionotropic receptor NMDA type subunit 2A; LKS; EPND; FESD; NR2A; GluN2A; NMDAR2A; glutamate receptor ionotropic, NMDA 2A; N-methyl D-

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	aspartate receptor subtype 2A; N-methyl-D-aspartate receptor channel, subunit epsilon-1; N-methyl-D-aspartate receptor subunit 2A; glutamate receptor, ionotropic, N-methyl D-aspartate 2A
Gene ID	2903
mRNA Refseq	NM_000833.4
Protein Refseq	NP_000824.1
UniProt ID	Q12879

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