

Recombinant Human GRIN2B, His-tagged

Cat. No. GRIN2B-13535H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human GRIN2B protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

Species Human

Source E.coli

ProteinLength C-term-352a.a.

Description The product of this gene belongs to the family of G-protein coupled receptors, which contains several receptor subtypes with different pharmacological selectivity for various adenosine and uridine nucleotides. This receptor is a P2Y purinergic receptor for UDP-glucose and other UDP-sugars coupled to G-proteins. It has been implicated in extending the known immune system functions of P2Y receptors by participating in the regulation of the stem cell compartment, and it may also play a role in neuroimmune function. Two transcript variants encoding the same protein have been identified for this gene.

Storage The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

Storage Buffer 1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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Gene Name	GRIN2B glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Homo sapiens]
Official Symbol	GRIN2B
Synonyms	GRIN2B; glutamate receptor, ionotropic, N-methyl D-aspartate 2B; NMDAR2B; glutamate [NMDA] receptor subunit epsilon-2; GluN2B; NR3; glutamate receptor subunit epsilon-2; N-methyl-D-aspartate receptor subunit 3; N-methyl D-aspartate receptor subtype 2B; MRD6; NR2B; hNR3; MGC142178; MGC142180;
Gene ID	2904
mRNA Refseq	NM_000834
Protein Refseq	NP_000825
MIM	138252
UniProt ID	Q13224
Chromosome Location	12p12
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	D2 dopamine receptor binding; N-methyl-D-aspartate selective glutamate receptor activity; beta-catenin binding; cell adhesion molecule binding; drug binding;

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extracellular-glutamate-gated ion channel activity; glycine binding; ion channel activity; ionotr

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