

Recombinant Human GRIN2C, Protein A-tagged

Cat. No. GRIN2C-29051TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant full length Human NMDAR2C according to Protein Accession AAH59384.1, with a N terminal proprietary tag: predicted molecular weight 44.88 kDa inclusive of tag.

Species Human

Source Wheat Germ

ProteinLength 171 amino acids

Description N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA channel has been shown to be involved in long-term potentiation, an activity-dependent increase in the efficiency of synaptic transmission thought to underlie certain kinds of memory and learning. NMDA receptor channels are heteromers composed of the key receptor subunit NMDAR1 (GRIN1) and 1 or more of the 4 NMDAR2 subunits: NMDAR2A (GRIN2A), NMDAR2B (GRIN2B), NMDAR2C (GRIN2C), and NMDAR2D (GRIN2D).

Molecular Weight 44.880kDa inclusive of tags

Tissue specificity Mainly expressed in brain with predominant expression is in the cerebellum, also present in the hippocampus, amygdala, caudate nucleus, corpus callosum, subthalamic nuclei and thalamus. Detected in the heart, skeletal muscle and pancreas.

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGGALGPALLLTSLFGAWAGLPGQGEGMTVAVVFSSSG PPQAQFRARLTPQS FLDLPLEIQPLTVGVNTTNPSSLLTQ ICGLLGAHVHGIVFEDNVDTEAVAQILDFISS QTHVPIL SISGGSAVVLT PKVHVQTHVPSCLRPGTRLGSGVLFWEA GIRRDGQG GGG
Sequence Similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR2C/GRIN2C subfamily.

GENE INFORMATION

Gene Name	GRIN2C glutamate receptor, ionotropic, N-methyl D-aspartate 2C [Homo sapiens]
Official Symbol	GRIN2C
Synonyms	GRIN2C; glutamate receptor, ionotropic, N-methyl D-aspartate 2C; NMDAR2C; glutamate [NMDA] receptor subunit epsilon-3;
Gene ID	2905
mRNA Refseq	NM_000835
Protein Refseq	NP_000826

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MIM	138254
Uniprot ID	Q14957
Chromosome Location	17q24-q25
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral sclerosis (ALS), conserved biosystem;
Function	N-methyl-D-aspartate selective glutamate receptor activity; cation channel activity; extracellular-glutamate-gated ion channel activity; receptor activity; transporter activity;

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