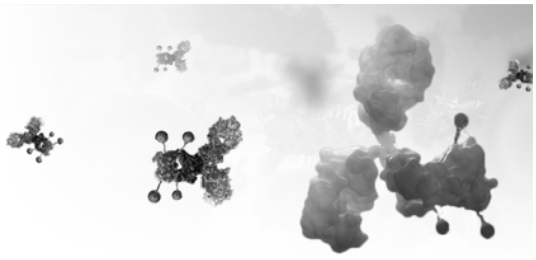

Human GRIN2B peptide (DAG-P1824)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	N-methyl-D-aspartate (NMDA) receptors are a class of ionotropic glutamate receptors. NMDA receptor 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 three different subunits: NR1 (GRIN1), NR2 (GRIN2A, GRIN2B, GRIN2C, or GRIN2D) and NR3 (GRIN3A or GRIN3B). The NR2 subunit acts as the agonist binding site for glutamate. This receptor is the predominant excitatory neurotransmitter receptor in the mammalian brain. [provided by RefSeq, Jul 2008]
Specificity	Primarily found in the fronto-parieto-temporal cortex and hippocampus pyramidal cells, lower expression in the basal ganglia.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. NR2B/GRIN2B subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	GRIN2B glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Homo sapiens (human)]
Official Symbol	GRIN2B

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Synonyms	GRIN2B; glutamate receptor, ionotropic, N-methyl D-aspartate 2B; MRD6; NR2B; hNR3; GluN2B; NMDAR2B; glutamate receptor ionotropic, NMDA 2B; NR3; glutamate receptor subunit epsilon-2; N-methyl-D-aspartate receptor subunit 3; N-methyl D-aspartate receptor subtype 2B; glutamate [NMDA] receptor subunit epsilon-2;
Entrez Gene ID	2904
mRNA Refseq	NM_000834.3
Protein Refseq	NP_000825.2
UniProt ID	Q13224
Chromosome Location	12p12
Pathway	Activation of NMDA receptor upon glutamate binding and postsynaptic events, organism-specific biosystem; Alcoholism, organism-specific biosystem; Alcoholism, conserved biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Alzheimers Disease, organism-specific biosystem; Amphetamine addiction, organism-specific biosystem; Amphetamine addiction, conserved biosystem; Amyotrophic lateral sclerosis (ALS), organism-specific biosystem; Amyotrophic lateral
Function	N-methyl-D-aspartate selective glutamate receptor activity; calcium channel activity; extracellular-glutamate-gated ion channel activity; glycine binding; protein binding; zinc ion binding;

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