Grik1 Blocking Peptide

PRODUCT OVERVIEW

Product Name	Grik1, Blocking Peptide
Full Product Name	Grik1 Peptide
Product Gene Name	GRIK1 blocking peptide
Product Synonym Names	EAA3; EEA3; GLR5; GLUR5; GluK1; Glutamate receptor ionotropic; kainate 1; Excitatory amino acid receptor 3; glutamate receptor, ionotropic, kainate 1
Form/Format	Liquid
Concentration	200 ug/mL (lot specific)
Preparation and Storage	Store Grik1 peptide at -20 degree C, stable for one year.
Antibody/Peptide Pairs	Grik1 peptide (MBS152335) is used for blocking the activity of Grik1 antibody (MBS150263)
Molecular Weight	102,631 Da
OMIM	138245
Species	Human
Buffer	PBS pH 7.2 (10 mM NaH2PO4, 10 mM Na2HPO4, 130 mM NaCl) containing 0.1% bovine serum albumin and 0.02% sodium azide
Location	15 amino acids near the carboxy terminus of human Grik1.
Applications Tested/Suitable for GRIK1 blocking peptide	Blocking (BL)
Application Notes for GRIK1 blocking peptide	Grik1 peptide is used for blocking the activity of Grik1 antibody.
Related Product Information for GRIK1 blocking peptide	MBS152335 is a blocking peptide targeting GRIK1. Also known as Grik1 Peptide.
Other Notes	Small volumes of GRIK1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GRIK1. It may not necessarily be applicable to this product.

NCBI GI #	729597
NCBI GeneID	2897
NCBI Accession #	P39086.1
UniProt Primary Accession #	P39086
UniProt Secondary Accession #	Q13001; Q86SU9
UniProt Related Accession #	P39086
NCBI Official Full Name	Glutamate receptor ionotropic, kainate 1
NCBI Official Synonym Full Names	glutamate receptor, ionotropic, kainate 1

NCBI Official Symbol	GRIK1
NCBI Official Synonym Symbols	EAA3; EEA3; GLR5; GLUR5; GluK1
UniProt Protein Name	Glutamate receptor ionotropic, kainate 1
UniProt Synonym Protein Names	Excitatory amino acid receptor 3; EAA3; Glutamate receptor 5; GluR-5; GluR5
Protein Family	Glutamate receptor ionotropic
UniProt Gene Name	GRIK1
UniProt Synonym Gene Names	GLUR5; GluK1; EAA3; GluR-5; GluR5
UniProt Entry Name	GRIK1_HUMAN
NCBI Protein Information	glutamate receptor ionotropic, kainate 1; gluR-5; glutamate receptor 5; excitatory amino acid receptor 3
NCBI Summary for GRIK1	Glutamate receptors are the predominant excitatory neurotransmitter receptors in the mammalian brain and are activated in a variety of normal neurophysiologic processes. This gene product belongs to the kainate family of glutamate receptors, which are composed of four subunits and function as ligand-activated ion channels. The subunit encoded by this gene is subject to RNA editing (CAG->CGG; Q->R) within the second transmembrane domain, which is thought to alter the properties of ion flow. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for GRIK1	GluR5: Ionotropic glutamate receptor. L-glutamate acts as an excitatory neurotransmitter at many synapses in the central nervous system. Binding of the excitatory neurotransmitter L- glutamate induces a conformation change, leading to the opening of the cation channel, and thereby converts the chemical signal to an electrical impulse. The receptor then desensitizes rapidly and enters a transient inactive state, characterized by the presence of bound agonist. May be involved in the transmission of light information from the retina to the hypothalamus. Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK1 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; Membrane protein, multi-pass; Channel, ligand-gated Chromosomal Location of Human Ortholog: 21q22.11 Cellular Component: presynaptic membrane; postsynaptic membrane; kainate selective glutamate receptor complex; integral to plasma membrane; dendrite; plasma membrane; cell junction Molecular Function: extracellular-glutamate-gated ion channel activity; kainate selective glutamate receptor activity Biological Process: synaptic transmission, glutamatergic; nervous system development; regulation of synaptic transmission, glutamatergic; central nervous system development; glutamate signaling pathway; positive regulation of synaptic transmission, GABAergic; negative regulation of synaptic transmission, glutamatergic; regulation of inhibitory postsynaptic membrane potential; synaptic transmission; behavioral response to pain; transport; ionotropic glutamate receptor signaling pathway; adult behavior; regulation of excitatory postsynaptic membrane potential; positive regulation of gamma-aminobutyric acid secretion
Research Articles on GRIK1	**1.** Topiramate treatment for alcohol dependence was significantly more effective in rs2832407 C-allele homozygotes.
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