Glur5 / GRIK1 Immunizing Blocking Peptide

PRODUCT OVERVIEW

Product Name	GLuR5 / GRIK1, Blocking Peptide
Full Product Name	GLuR5 / GRIK1 Immunizing Peptide
Product Gene Name	GRIK1 blocking peptide
Product Synonym Gene Name	GLuR5
Product Synonym Names	GLUR5; GRIK1; glutamate receptor, ionotropic, kainate 1; EAA3; EEA3; GLR5; excitatory amino acid receptor 3; GLuR5 / GRIK1
Sequence	QCKQTHPTNS TS
Species Reactivity	Human, Mouse, Rat
Form/Format	100ug of dried peptide
Preparation and Storage	Shipped at ambient temperature, store at -20 degree C
Antibody/Peptide Pairs	GLuR5 / GRIK1 peptide (MBS425589) is used for blocking the activity of GLuR5/GRIK1 antibody (MBS420225)
Molecular Weight	102,631 Da
OMIM	138245
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for GRIK1 blocking peptide	MBS425589 is a blocking peptide targeting GRIK1. Also known as GLuR5 / GRIK1 Immunizing Peptide. Reactive in Human, Mouse, Rat.
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 #	4504117
NCBI GeneID	2897
NCBI Accession #	NP_000821.1
NCBI Related Accession #	NP_783300.1
UniProt Secondary Accession #	Q13001; Q86SU9
UniProt Related Accession #	P39086
GenBank Nucleotide #	NM_000830.4
NCBI Official Full Name	glutamate receptor ionotropic, kainate 1 isoform 1
NCBI Official Synonym Full Names	glutamate ionotropic receptor kainate type subunit 1
NCBI Official Symbol	GRIK1
NCBI Official Synonym Symbols	EAA3; EEA3; GLR5; GLUR5; GluK1; gluR-5
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
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: cell junction; integral to plasma membrane; plasma membrane; postsynaptic membrane Molecular Function: extracellular-glutamate-gated ion channel activity; kainate selective glutamate receptor activity; ligand-gated ion channel activity Biological Process: central nervous system development; glutamate signaling pathway; ionotropic glutamate receptor signaling pathway; nervous system development; regulation of synaptic transmission, glutamatergic; synaptic transmission; transport
Research Articles on GRIK1	**1.** In the present study, we have shown that gene-gene interaction of components of different systems associated with nicotine reinforcing effects, such as OPRM1 and GRIK1, rather than one gene polymorphism, is associated with smoking behavior.
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