

Recombinant Human GRIK1

Cat. No. GRIK1-28537TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human GRIK1 amino acids 331-440 with a N terminal proprietary tag; Predicted MWt 37.73 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	110 amino acids
Description	<p>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.</p>
Molecular Weight	37.730kDa inclusive of tags
Tissue specificity	Most abundant in the cerebellum and the suprachiasmatic nuclei (SCN) of the hypothalamus.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.
Sequences of amino acids	VAIASHRASQLTVSSLQCHRHKPWRLGPRFMNLIKEARWD GLTGHITFNKTNGLRK DFDLDIISLKEEGTEKAAGEVSKH LYKVWKKIGIWNSNSGLNMTDSNKDKSSNI
Sequence Similarities	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRIK1 subfamily.

GENE INFORMATION

Gene Name	GRIK1 glutamate receptor, ionotropic, kainate 1 [Homo sapiens]
Official Symbol	GRIK1
Synonyms	GRIK1; glutamate receptor, ionotropic, kainate 1; GLUR5; glutamate receptor, ionotropic kainate 1;
Gene ID	2897
mRNA Refseq	NM_000830
Protein Refseq	NP_000821
MIM	138245
Uniprot ID	P39086

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Chromosome Location	21q22
Pathway	Activation of Ca-permeable Kainate Receptor, organism-specific biosystem; Activation of Kainate Receptors upon glutamate binding, organism-specific biosystem; Activation of Na-permeable Kainate Receptors, organism-specific biosystem; Glutamatergic synapse, organism-specific biosystem; Glutamatergic synapse, conserved biosystem;
Function	drug binding; extracellular-glutamate-gated ion channel activity; glutamate binding; ion channel activity; kainate selective glutamate receptor activity;

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