

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	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.
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 LYKVWKKIGIWNSNSGLNMTDSNKKDKSSNI
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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