

Recombinant Human KCNA1

Cat. No. KCNA1-29199TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 410-495 of Human Kv1.1 potassium channel with an N terminal proprietary tag; Predicted MWt 35.09 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	86 amino acids
Description	This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6), and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK).
Molecular Weight	35.090kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	NFNIFYHRETEGEEQAQLLHVSSPNLASDSDLRRSSSTMSKYEYMEIEEDMNNSI AHYRQVNIRTANCTTANQNCVNKSKLLTDV
Sequence Similarities	Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.1/KCNA1 sub-subfamily.

GENE INFORMATION

Gene Name	KCNA1 potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia) [Homo sapiens]
Official Symbol	KCNA1
Synonyms	KCNA1; potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia); AEMK; potassium voltage-gated channel subfamily A member 1; HUK1; Kv1.1; MBK1; RBK1;
Gene ID	3736
mRNA Refseq	NM_000217
Protein Refseq	NP_000208
MIM	176260
Uniprot ID	Q09470

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Chromosome Location	12p13
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; potassium channel activity; potassium ion transmembrane transporter activity; voltage-gated ion channel activity;

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