Recombinant Human KCNA1

KCNA1-29199TH Human
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.
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).
Protein length	86 amino acids
Molecular Weight	35.090kDa inclusive of tags
Source	Wheat germ
Form	Liquid
Purity	Proprietary Purification
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	NFNYFYHRETEGEEQAQLLHVSSPNLASDSDLSRRSSSTMSKYEYMEIEEDMNNSIAHYRQVNIRTANCTTANQNCVNKSKLLTDV
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

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mRNA Refseq	NM_000217
Protein Refseq	NP_000208
MIM	176260
Uniprot ID	Q09470
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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