

Recombinant Full Length Human KCNA1 Protein, GST-tagged

Cat. No. KCNA1-6859HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human KCNA1 full-length ORF (NP_000208.2, 1 a.a. - 495 a.a.) recombinant protein with GST-tag at N-terminal was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	495 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 Mass	82.9 kDa
AA Sequence	MTVMSEGENVDEASAAPGHPQDGSYPRQADHDDHECCERVVINISGLRFETQLKTLA QFPNTLLGNPKKRMRYFDPLRNEYFFDRNRPSFDAILYYYQSGGRLRRPVNVPLDM FSEEEKFYELGEEAMEKFREDEGFIKEEERPLPEKEYQRQVWLLFEYPESSGPARVI AIVSVMVILISIVIFCLETLPCLKDDKDFTGTVHRIDNTTVIYNSNIFTDPFFIVETLCIIWF

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SFELVVRFFACPSKTDFFKNIMNFIDIVAIIPYFITLGTEIAEQEGNQKGEQATSLAILRV
IRLVRVFRIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFSSAVYFAEAEAEES
HFSSIPDAFWWAVVSMTTVGYGDMYPVTIGGKIVGSLCAIAGVLTIALPVPVIVSNFN
YFYHRETEGEEQAQLLHVSSPNLASDSDLRRSSSTMSKSEYMEIEEDMNNSIAHY
RQVNIRTANCTTANQNCVNKSKLLTDV

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name KCNA1 potassium voltage-gated channel subfamily A member 1 [Homo sapiens (human)]

Official Symbol KCNA1

Synonyms KCNA1; potassium voltage-gated channel subfamily A member 1; EA1; MK1; AEMK; HBK1; HUK1; MBK1; RBK1; KV1.1; potassium voltage-gated channel subfamily A member 1; potassium channel, voltage gated shaker related subfamily A, member 1; potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia); voltage-gated K(+) channel HuK1; voltage-gated potassium channel HBK1; voltage-gated potassium channel subunit Kv1.1

Gene ID 3736

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mRNA Refseq	NM_000217
Protein Refseq	NP_000208
MIM	176260
UniProt ID	Q09470

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