

Recombinant Human KCNA3

Cat. No. KCNA3-29890TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant fragment of Human KCNA3 with a N terminal proprietary tag: predicted molecular weight 36.63 kDa inclusive of tag.

Species Human

Source Wheat Germ

ProteinLength 100 amino acids

Description Potassium channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member contains six membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to the delayed rectifier class, members of which allow nerve cells to efficiently repolarize following an action potential. It plays an essential role in T-cell proliferation and activation. This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes on chromosome 1.

Molecular Weight 36.630kDa inclusive of tags

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Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 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	VPVIVSNFNIFYFHRETEGEEQSQYMHVGCQHLSSSAEELRKARSNSTLSKSEYMV IEEGGMNHSAFPQTPFKTGNSTATCTTNNPNNSCVNIKKIFTDV
Sequence Similarities	Belongs to the potassium channel family. A (Shaker) (TC 1.A.1.2) subfamily. Kv1.3/KCNA3 sub-subfamily.

GENE INFORMATION

Gene Name	KCNA3 potassium voltage-gated channel, shaker-related subfamily, member 3 [Homo sapiens]
Official Symbol	KCNA3
Synonyms	KCNA3; potassium voltage-gated channel, shaker-related subfamily, member 3; potassium voltage-gated channel subfamily A member 3; HLK3; HPCN3; Kv1.3; MK3;
Gene ID	3738
mRNA Refseq	NM_002232
Protein Refseq	NP_002223

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MIM	176263
Uniprot ID	P22001
Chromosome Location	1p13.3
Pathway	Neuronal System, organism-specific biosystem; Potassium Channels, organism-specific biosystem; Voltage gated Potassium channels, organism-specific biosystem;
Function	delayed rectifier potassium channel activity; outward rectifier potassium channel activity; voltage-gated ion channel activity;

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