KCNA1 (Human) Recombinant Protein

Catalog # P8942 Size 20 ug

Specification

Product Description	Human KCNA1 (P21741) recombinant protein with His tag at N-Terminus expressed in *Escherichia coli*.
Sequence	MKHHHHHHHMKKKDKVKKGGPGSECAEWAWGPCTPSSKDCGVGFREGTCGAQTQRIRCRVP CNWKKEFGADCKYKFENWGACDGGTGTKVRQGTLKKARYNAQCQETIRVTKPCTPKTKAKAKA KKGKGKD.
Host	Escherichia coli
Theoretical MW (kDa)	14.6
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 95% by SDS PAGE
Storage Buffer	Lyophilized from 0.1M NaCl, pH 7.2.
Storage Instruction	Store at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles.

Applications

- SDS-PAGE

Gene Info — KCNA1

Entrez GeneID	3736
Protein Accession#	P21741
Gene Name	KCNA1

Gene Alias	AEMK, EA1, HBK1, HUK1, KV1.1, MBK1, MGC126782, MGC138385, MK1, RBK1
Gene Description	potassium voltage-gated channel, shaker-related subfamily, member 1 (episodic ataxia with myokymia)
Omim ID	160120 176260
Gene Ontology	Hyperlink
Gene Summary	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). [provided by RefSeq
Other Designations	potassium voltage-gated channel subfamily A member 1|voltage-gated potassium channel subunit Kv1.1

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema