

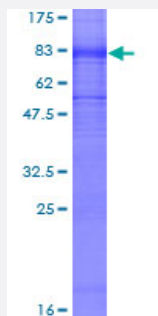
Full-Length

KCNA1 (Human) Recombinant Protein (P01)

Catalog # H00003736-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human KCNA1 full-length ORF (NP_000208.2, 1 a.a. - 495 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MTVMSGENVDEASAAPGHPQDGSYPRQADHDDHECCERVVINISGLRFETQLKTLAQFPNTLLG
NPKKRMRYFDPLRNEYFFDRNRPSFDAILYQQSGGRLRRPVNVPLDMFSEEIKFYELGEEAMEK
FREDEGFIKEERPLPEKEYQRQVWLLFEYPESSGPARIASVMVILISMIFCLETLPKDDKD
FTGTVHRIDNTTVYNSNIFTDPFFIVETLCIWFSEFELVVRFFACPSKTDFFKNIMNFIDVAIIPYITLGT
EIAEQEGNQKGEQATSLAILRVIRLVVRFRIFKLSRHSKGLQILGQTLKASMRELGLLIFFLFIGVILFS
SAVYFAEAEAAESHFSSIPDAFWWAVVSMTTVGYGDMYPVTIGGKIVGSLCAIAGVLTALPVPVIV
SNFNIFYHRETEGEEQAQLLHVSSPNLASDSDLSRRSSSTMSKSEYMEIEEDMNNNSIAHYRQVNI
RTANCTTANQNCVNKSKLLTDV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

82.9

Interspecies Antigen Sequence

Mouse (98); Rat (98)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

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

Gene Info — KCNA1

Entrez GeneID	3736
GeneBank Accession#	NM_000217.2
Protein Accession#	NP_000208.2
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	<p>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]</p>

Other Designations

potassium voltage-gated channel subfamily A member 1 | voltage-gated potassium channel subunit Kv1.1

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)