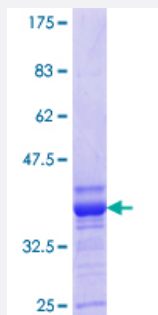


KCNA1 (Human) Recombinant Protein (Q01)

Catalog # H00003736-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNA1 partial ORF (NP_000208.1, 410 a.a. - 495 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NFNIFYHRETEGEEQAQLLHVSSPNLASDSDLRRSSSTMSKSEYMEIEEDMNNIAHYRQVNIRT ANCTTANQNCVNKSKLLTDV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.2
Interspecies Antigen Sequence	Mouse (95); Rat (93)
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
Protein Accession#	NP_000208.1
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](#)