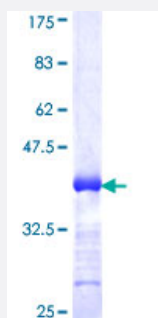


KCNA4 (Human) Recombinant Protein (Q01)

Catalog # H00003739-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNA4 partial ORF (NP_002224, 562 a.a. - 652 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	NFNIFYHRETENEEQTQLTQNAVSCPYLPSNLLKKFRSSTSSSLGDKSEYLEMEEGVKESLCAKE EKCQKGKDDSETDKNNCSNAKAVETD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.75
Interspecies Antigen Sequence	Mouse (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 — KCNA4

Entrez GeneID [3739](#)

GeneBank Accession# [NM_002233](#)

Protein Accession# [NP_002224](#)

Gene Name KCNA4

Gene Alias HBK4, HK1, HPCN2, HUKII, KCNA4L, KCNA8, KV1.4, PCN2

Gene Description potassium voltage-gated channel, shaker-related subfamily, member 4

Omim ID [176266](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 A-type potassium current class, the members of which may be important in the regulation of the fast repolarizing phase of action potentials in heart and thus may influence the duration of cardiac action potential. The coding region of this gene is intronless, and the gene is clustered with genes KCNA3 and KCNA10 on chromosome 1. [provided by RefSeq]

Other Designations cardiac potassium channel|fetal skeletal muscle potassium channel|potassium channel 2|potassium voltage-gated channel, shaker-related subfamily, member 4-like|rapidly inactivating potassium channel|shaker-related potassium channel Kv1.4|type A potassium c