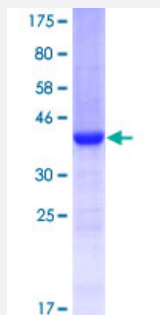


KCNJ1 (Human) Recombinant Protein (Q01)

Catalog # H00003758-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNJ1 partial ORF (NP_000211, 292 a.a. - 391 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	ELVVFLDGTVESTSATCQVRTSYVPEEVLWG YRFAPMSKTKEGKYRVDFHNSKTVEVETPHCA MCLYNEKDVRARMKRGYDNP NFILSEVNETDDTKM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (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 — KCNJ1

Entrez GeneID [3758](#)

GeneBank Accession# [NM_000220](#)

Protein Accession# [NP_000211](#)

Gene Name KCNJ1

Gene Alias KIR1.1, ROMK, ROMK1

Gene Description potassium inwardly-rectifying channel, subfamily J, member 1

Omim ID [241200](#) [600359](#)

Gene Ontology [Hyperlink](#)

Gene Summary Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. It is activated by internal ATP and probably plays an important role in potassium homeostasis. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Mutations in this gene have been associated with antenatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalciuria, and low blood pressure. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]

Other Designations ATP-regulated potassium channel ROM-K|ATP-sensitive inward rectifier potassium channel 1|OTTHUMP00000045938|inwardly rectifying K+ channel|potassium inwardly-rectifying channel J1

Disease

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