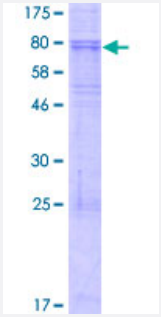
Full-Length

KCNJ1 (Human) Recombinant Protein (P01)

Catalog # H00003758-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human KCNJ1 full-length ORF (NP_722449.1, 1 a.a. - 389 a.a.) recombinant protein with GST-tag a t N-terminal.
Sequence	MPTVYLCSEQIRVLTESMFKHLRKWVVTRFFGHSRQRARLVSKDGRCNIEFGNVEAQSRFIFFVDI WTTVLDLKWRYKMTIFITAFLGSWFFFGLLWYAVAYIHKDLPEFHPSANHTPCVENINGLTSAFLFS LETQVTIGYGFRCVTEQCATAIFLLIFQSILGVIINSFMCGAILAKISRPKKRAKTITFSKNAVISKRGGK LCLLIRVANLRKSLLIGSHIYGKLLKTTVTPEGETIILDQININFVVDAGNENLFFISPLTIYHVIDHNSPFF HMAAETLLQQDFELVVFLDGTVESTSATCQVRTSYVPEEVLWGYRFAPIVSKTKEGKYRVDFHNF SKTVEVETPHCAMCLYNEKDVRARMKRGYDNPNFILSEVNETDDTKM
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	71
Interspecies Antigen Sequence	Mouse (91)
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_153765.1
Protein Accession#	NP_722449.1
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 impo rtant role in potassium homeostasis. The encoded protein has a greater tendency to allow potassi um to flow into a cell rather than out of a cell. Mutations in this gene have been associated with ant enatal Bartter syndrome, which is characterized by salt wasting, hypokalemic alkalosis, hypercalci uria, and low blood pressure. Multiple transcript variants encoding different isoforms have been fo und for this gene. [provided by RefSeq
Other Designations	ATP-regulated potassium channel ROM-K|ATP-sensitive inward rectifier potassium channel 1|OT THUMP00000045938|inwardly rectifying K+ channel|potassium inwardly-rectifying channel J1

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Hyperparathyroidism
- Hypertension
- Hypotension
- Tobacco Use Disorder