

Recombinant Human KCNJ1

Cat. No. KCNJ1-28453TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human KCNJ1 with N terminal proprietary tag, 36.63kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	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.
Molecular Weight	36.630kDa inclusive of tags
Tissue specificity	In the kidney and pancreatic islets. Lower levels in skeletal muscle, pancreas, spleen, brain, heart and liver.
Form	Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ELVVFLDGTVESTSATCQVRTSYVPPEVLWGYRFAPIVSKTKEGKYRVDFHNFSKTV EVETPHCAMCLYNEKDVRARMKRGYDNPNFILSEVNETDDTKM
Sequence Similarities	Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ1 subfamily.

GENE INFORMATION

Gene Name	KCNJ1 potassium inwardly-rectifying channel, subfamily J, member 1 [Homo sapiens]
Official Symbol	KCNJ1
Synonyms	KCNJ1; potassium inwardly-rectifying channel, subfamily J, member 1; ATP-sensitive inward rectifier potassium channel 1; Kir1.1; ROMK1;
Gene ID	3758
mRNA Refseq	NM_000220
Protein Refseq	NP_000211
MIM	600359

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Uniprot ID	P48048
Chromosome Location	11q24
Pathway	Aldosterone-regulated sodium reabsorption, organism-specific biosystem; Aldosterone-regulated sodium reabsorption, conserved biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem; Inwardly rectifying K ⁺ channels, organism-specific biosystem;
Function	ATP binding; inward rectifier potassium channel activity; nucleotide binding; voltage-gated ion channel activity;

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