

Recombinant Human KCNJ10 protein, GST-tagged

Cat. No. KCNJ10-2545H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human KCNJ10(C-term-200aa) fused with GST tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	C-term-200aa
Description	This gene encodes a member of the inward rectifier-type potassium channel family, characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic generalized epilepsy syndromes.
Form	Protein lyophilized in sterile PBS (58 mM Na ₂ HPO ₄ , 17 mM NaH ₂ PO ₄ , 68 mM NaCl, 100 mM GSH, pH 8.0) and 10% glycerol.
AA Sequence	ETIRFSQHAVVASHNGKPCLMIRVANMRKSLIGCQVTGKLLQTHQTKEGENIRLNQ VNVTFQVDTASDSPFLILPLTFYHVVDETSPLKDLPLRSGEEDFELVLILSGTVVESTSA TCQVRTSYLP EEILWGYEFTPAISLSASGKYIADFSLFDQVVKVASPSGLRDSTVRYG DPEKLEESLREQAEKEGSALSVRISNV
Storage	Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months. Avoid freeze

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thaw cycles.

Shipping

The product is shipped with ice packs. Upon receipt, store it immediately at -20 centigrade to -80 centigrade.

GENE INFORMATION

Gene Name

KCNJ10 potassium inwardly-rectifying channel, subfamily J, member 10 [Homo sapiens]

Official Symbol

KCNJ10

Synonyms

KCNJ10; potassium inwardly-rectifying channel, subfamily J, member 10; ATP-sensitive inward rectifier potassium channel 10; Kir1.2; Kir4.1; inward rectifier K+ channel KIR1.2; inward rectifier K(+) channel Kir1.2; ATP-dependent inwardly rectifying potassium channel Kir4.1; potassium channel, inwardly rectifying subfamily J member 10; glial ATP-dependent inwardly rectifying potassium channel KIR4.1; KIR1.2; KIR4.1; SESAME; BIRK-10; KCNJ13-PEN;

Gene ID

3766

mRNA Refseq

NM_002241

Protein Refseq

NP_002232

MIM

602208

UniProt ID

P78508

Chromosome Location

1q23.2

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Pathway	Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; G protein gated Potassium channels, organism-specific biosystem; GABA B receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem; Gastric acid secretion, organism-specific biosystem; Gastric acid secretion, conserved biosystem;
Function	ATP binding; ATP-activated inward rectifier potassium channel activity; identical protein binding; nucleotide binding; potassium channel activity; protein binding; voltage-gated ion channel activity;