

Recombinant Human KCNJ10

Cat. No. KCNJ10-29899TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Kir4.1 with N terminal proprietary tag; predicted MWt: 37.07 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	104 amino acids
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.
Molecular Weight	37.070kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw

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cycles.

Sequences of amino acids DFELVLILSGTVESTSATCQVRTSYLP EEILWGYEFTPAI SLSASGKYIADFSLFDQVV
KVASPSGLRDSTVRYGDPEKL KLEESLREQAEKEGSALSVRISNV

Sequence Similarities Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ10 subfamily.

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;

Gene ID 3766

mRNA Refseq NM_002241

Protein Refseq NP_002232

MIM 602208

Uniprot ID P78508

Chromosome Location 1q23.2

Pathway Activation of G protein gated Potassium channels, organism-specific biosystem;

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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;

Function

ATP binding; ATP-activated inward rectifier potassium channel activity; identical protein binding; nucleotide binding; potassium channel activity;

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