

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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