Recombinant Human KCNJ11

Cat. No. KCNJ11-29900TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 301-390 of Human Kir6.2 with an N terminal proprietary tag; Predicted MWt 35.53 kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	90 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. The encoded protein, which has a greater tendency to allow potassium to flow into a cell rather than out of a cell, is controlled by G-proteins and is found associated with the sulfonylurea receptor SUR. Mutations in this gene are a cause of familial persistent hyperinsulinemic hypoglycemia of infancy (PHHI), an autosomal recessive disorder characterized by unregulated insulin secretion. Defects in this gene may also contribute to autosomal dominant non-insulin-dependent diabetes mellitus type II (NIDDM), transient neonatal diabetes mellitus type 3 (TNDM3), and permanent neonatal diabetes mellitus (PNDM). Multiple alternatively spliced transcript variants that encode different protein isoforms have been described for this gene.
Molecular Weight	35.530kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents: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	RTSYLADEILWGQRFVPIVAEEDGRYSVDYSKFGNTVKVPTPLCTARQLDEDHSLLE ALTLASARGPLRKRSVPMAKAKPKFSISPDSLS

GENE INFORMATION

Gene Name	KCNJ11 potassium inwardly-rectifying channel, subfamily J, member 11 [Homo sapiens]
Official Symbol	KCNJ11
Synonyms	KCNJ11; potassium inwardly-rectifying channel, subfamily J, member 11; ATP-sensitive inward rectifier potassium channel 11; BIR; Kir6.2;
Gene ID	3767
mRNA Refseq	NM_000525
Protein Refseq	NP_000516
MIM	600937
Uniprot ID	Q14654
Chromosome Location	11p15.1

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Pathway	ATP sensitive Potassium channels, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Inwardly rectifying K+ channels, organism-specific biosystem; Metabolism, organism-specific biosystem;
Function	ATP binding; ATP-activated inward rectifier potassium channel activity; inward rectifier potassium channel activity; potassium ion binding; protein C-terminus binding;

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