

Recombinant Full Length Human KCNJ5 Protein, Flag tagged

Cat. No. KCNJ5-12HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human potassium inwardly-rectifying channel, subfamily J, member 5 (KCNJ5) with C-terminal flag tag was expressed in HEK293T.
Species	Human
Source	HEK293
ProteinLength	1-419aa
Description	This gene encodes an integral membrane protein which belongs to one of seven subfamilies of inward-rectifier potassium channel proteins called potassium channel subfamily J. The encoded protein is a subunit of the potassium channel which is homotetrameric. It is controlled by G-proteins and has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Naturally occurring mutations in this gene are associated with aldosterone-producing adenomas.
Tag	C-Flag
Molecular Mass	47.5 kDa
AA Sequence	MAGDSRNAMNQDMEIGVTPWDPKKIPKQARDYVPIATDRTRLLAEGKKPRQRYME KSGKCNVHHGNVQETYRYLSDLFTTLVDLKWRFNLLVFTMVYTVTWLFFGFIWWLIA YIRGDLDHVGDQEWIPCVENLSGFVSAFLFSIETETTIGYGFRVITEKCPEGIILLLVQA ILGSIVNAFMVGCMFVKISQPKKRAETLMFSNNAVISM RDEKLCLMFRVGDLRNSHIV EASIRAKLIKS RQTKEGEFIPLNQTDINVGFD TGDDRLFLVSPLISHEINEKSPFWEMS

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QAQLHQEEFEVWVILEGMVEATGMTCCQARSSYMDTEVLWGHRTPTVLTLEKGFYEV
DYNTFHDTYETNTPSCCAKELAEMKREGRLLQYLPSPPLLGGCAEAGLDAEAEQNE
EDEPKGLGGSREARGSVTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Notes For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Storage Buffer 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Concentration >0.05 µg/µL as determined by microplate BCA method

GENE INFORMATION

Gene Name KCNJ5 potassium inwardly rectifying channel subfamily J member 5 [Homo sapiens (human)]

Official Symbol KCNJ5

Synonyms KCNJ5; potassium inwardly-rectifying channel, subfamily J, member 5; G protein-activated inward rectifier potassium channel 4; CIR; GIRK4; KATP1; Kir3.4; IRK-4; heart KATP channel; inward rectifier K⁺ channel KIR3.4; cardiac ATP-sensitive potassium channel; LQT13; KIR3.4

Gene ID 3762

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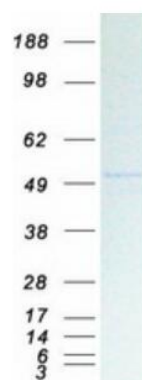
mRNA Refseq [NM_000890](#)

Protein Refseq [NP_000881](#)

MIM [600734](#)

UniProt ID [P48544](#)

Coomassie blue staining of purified KCNJ5 protein. The protein was produced from HEK293T cells transfected with KCNJ5 cDNA clone using MegaTran 2.0.



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