

Recombinant Full Length Human Kcnj5 Protein, His tagged

Cat. No. KCNJ5-027HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human Kcnj5 Protein with N-10×His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-419 aa
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	N-10×His
Molecular Mass	53.7 kDa
AA Sequence	MAGDSRNAMNQDMEIGVTPWDPKKIPKQARDYVPIATDRTRLLAEGKKPRQRYME KSGKCNVHHGNVQETYRYLSDLFTTLVDLKWRFNLLVFTMVYTVTWLFFGFIWWLIA YIRGDLDHVGDQEWIPCVENLSGFVSAFLFSIETETTIGYGFRVITEKCPEGIILLLVQA ILGSIVNAFMVGC MFVKISQPKKRAETLMFSNNAVISM RDEKLCLMFRVGD LRNSHIV EASIRAKLIKSRQTKEGEFIPLNQTDINVGFD TGDDRLFLVSPLISHEINQKSPFWEM

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SQAQLHQEEFEVVILEGMVEATGMTCCQARSSYMDTEVLWGHRTFVLTLEKGFYE
VDYNTFHDTYETNTPSCCAKELAEMKREGRLLQYLPSPPLLGGCAEAGLDAEAEQN
EEDEPKGLGGSREARGSV

Purity > 90% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade for twelve months from the date of receipt. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% FOS12, 6% Trehalose, pH 8.0. The volume before lyophilization is 345 µL/vial.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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

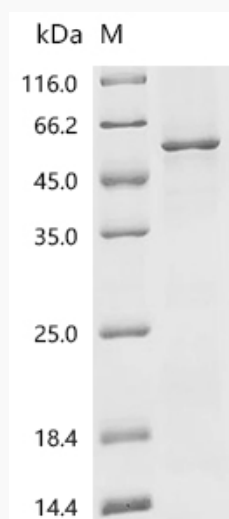
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Gene ID	3762
mRNA Refseq	NM_000890
Protein Refseq	NP_000881
MIM	600734
UniProt ID	P48544

SDS-PAGE



Observed band size: 54 kDa

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 centigrade for 10 min is an effective alternative.