

Recombinant Mouse Kcnj6 (consisting of residues 52-380, constitutively active mutant)

Cat. No. Kcnj6-9171M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Kcnj6 (consisting of residues 52-380 , constitutively active mutant), was expressed in Pichia pastoris and purified by Affinity chromatography, Superdex-200 gel filtration.
Species	Mouse
Source	P.pastoris
ProteinLength	329 amino acids(residues 52-380)
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 may be involved in the regulation of insulin secretion by glucose. It associates with two other G-protein-activated potassium channels to form a heteromultimeric pore-forming complex.
Form	20 mM Tris-HCl (pH 7.5), 150 mM KCl, 0.2% (w/v) DM ,20 mM DTT, and 1 mM EDTA
Molecular Mass	Predicts a molecular mass of 37KDa. As a result of transmembrane protein, it migrates approximately 3340 KDa in SDS-PAGE under non-reducing conditions.
Purity	>95% as determined by SDS-PAGE

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Storage	Can be stored at +4°C short term. For long term storage, store at -20°C
Concentration	0.54 mg/ml
GENE INFORMATION	
Gene Name	Kcnj6 potassium inwardly-rectifying channel, subfamily J, member 6 [Mus musculus]
Official Symbol	Kcnj6
Synonyms	KCNJ6; potassium inwardly-rectifying channel, subfamily J, member 6; G protein-activated inward rectifier potassium channel 2; GIRK-2; inward rectifier K(+) channel Kir3.2; potassium inwardly-rectifying channel J6; potassium channel, inwardly rectifying subfamily J member 6; wv; BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver;
Gene ID	16522
mRNA Refseq	NM_001025584
Protein Refseq	NP_001020755
Pathway	Activation of G protein gated Potassium channels, organism-specific biosystem; Activation of GABAB receptors, organism-specific biosystem; Cholinergic synapse, organism-specific biosystem; Dopaminergic synapse, organism-specific biosystem; Dopaminergic synapse, conserved biosystem; G protein gated Potassium channels, organism-specific biosystem; GABA B receptor activation, organism-specific biosystem;
Function	G-protein activated inward rectifier potassium channel activity; G-protein alpha-subunit binding; inward rectifier potassium channel activity; ion channel activity; voltage-gated ion channel activity;

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