

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

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Mouse
<b>Source</b>	P.pastoris
<b>ProteinLength</b>	329 amino acids(residues 52-380)
<b>Description</b>	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.
<b>Form</b>	20 mM Tris-HCl (pH 7.5), 150 mM KCl, 0.2% (w/v) DM ,20 mM DTT, and 1 mM EDTA
<b>Molecular Mass</b>	Predicts a molecular mass of 37KDa. As a result of transmembrane protein, it migrates approximately 3340 KDa in SDS-PAGE under non-reducing conditions.
<b>Purity</b>	>95% as determined by SDS-PAGE

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<b>Storage</b>	Can be stored at +4°C short term. For long term storage, store at -20°C
<b>Concentration</b>	0.54 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Kcnj6 potassium inwardly-rectifying channel, subfamily J, member 6 [ Mus musculus ]</a>
<b>Official Symbol</b>	Kcnj6
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">16522</a>
<b>mRNA Refseq</b>	<a href="#">NM_001025584</a>
<b>Protein Refseq</b>	<a href="#">NP_001020755</a>
<b>Pathway</b>	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;
<b>Function</b>	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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