

## Recombinant Mouse Kcnj6 Protein, MYC/DDK-tagged

**Cat. No.** Kcnj6-1260M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of full-length mouse potassium inwardly-rectifying channel, subfamily J, member 6 (Kcnj6), transcript variant Girk2A-1, with C-terminal MYC/DDK tag, was expressed in HEK293T cells.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | This potassium channel is controlled by G proteins. It plays a role in granule cell differentiation, possibly via membrane hyperpolarization. Inward rectifier potassium channels are characterized by a greater tendency to allow potassium to flow into the cell rather than out of it. Their voltage dependence is regulated by the concentration of extracellular potassium; as external potassium is raised, the voltage range of the channel opening shifts to more positive voltages. The inward rectification is mainly due to the blockage of outward current by internal magnesium. |
| <b>Molecular Mass</b>   | 49.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | >80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage</b>          | Store at -80 centigrade after receiving vials.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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**Concentration** >50 µg/mL as determined by microplate BCA method

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

## GENE INFORMATION

**Gene Name** Kcnj6 potassium inwardly-rectifying channel, subfamily J, member 6 [ Mus musculus (house mouse) ]

**Official Symbol** Kcnj6

**Synonyms** Kcnj6; potassium inwardly-rectifying channel, subfamily J, member 6; wv; BIR1; GIRK2; KATP2; KCNJ7; Kir3.2; weaver; G protein-activated inward rectifier potassium channel 2; G-protein-coupled inward rectifier K<sup>+</sup> channel 2-1; G-protein-coupled inward rectifier K<sup>+</sup> channel 2-A; G-protein-coupled inward rectifier K<sup>+</sup> channel 2-B; G-protein-coupled inward rectifier K<sup>+</sup> channel 2-C; GIRK-2; inward rectifier K(+) channel Kir3.2; potassium channel, inwardly rectifying subfamily J member 6; potassium inwardly-rectifying channel J6

**Gene ID** 16522

**mRNA Refseq** NM\_010606

**Protein Refseq** NP\_034736

**UniProt ID** P48542

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