

## Recombinant Human KCNJ15

**Cat. No.** KCNJ15-28454TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment of Human KCNJ15 with N-terminal proprietary tag. Predicted MW 32.89 kDa.                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 66 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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 has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Three transcript variants encoding the same protein have been found for this gene. |
| <b>Molecular Weight</b> | 32.890kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>          | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                                                                                                                                                                                                              |

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|                                 |                                                                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sequences of amino acids</b> | TSAVCQSRTSYIPEEIYWGFEFVPVVSLSKNGKYVADFSQFEQIRKSPDCTFYCADS<br>EKQQLEEKY                                                                                        |
| <b>Sequence Similarities</b>    | Belongs to the inward rectifier-type potassium channel (TC 1.A.2.1) family. KCNJ15 subfamily.                                                                 |
| <b>GENE INFORMATION</b>         |                                                                                                                                                               |
| <b>Gene Name</b>                | KCNJ15 potassium inwardly-rectifying channel, subfamily J, member 15 [ Homo sapiens ]                                                                         |
| <b>Official Symbol</b>          | KCNJ15                                                                                                                                                        |
| <b>Synonyms</b>                 | KCNJ15; potassium inwardly-rectifying channel, subfamily J, member 15; ATP-sensitive inward rectifier potassium channel 15; IRKK; Kir1.3; Kir4.2;             |
| <b>Gene ID</b>                  | 3772                                                                                                                                                          |
| <b>mRNA Refseq</b>              | NM_002243                                                                                                                                                     |
| <b>Protein Refseq</b>           | NP_002234                                                                                                                                                     |
| <b>MIM</b>                      | 602106                                                                                                                                                        |
| <b>Uniprot ID</b>               | Q99712                                                                                                                                                        |
| <b>Chromosome Location</b>      | 21q22.2                                                                                                                                                       |
| <b>Pathway</b>                  | Activation of G protein gated Potassium channels, organism-specific biosystem;<br>Activation of GABAB receptors, organism-specific biosystem; G protein gated |

Potassium channels, organism-specific biosystem; GABA B receptor activation, organism-specific biosystem; GABA receptor activation, organism-specific biosystem;

**Function**

inward rectifier potassium channel activity; potassium channel activity; voltage-gated ion channel activity;

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