

# Recombinant Human KCNK3 protein, His-tagged

**Cat. No.** KCNK3-32H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KCNK3 protein, fused to His-tag at N-terminus, was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene. |
| <b>Form</b>             | 50mM Tris, 8M Urea, pH8.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 16.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Concentration</b>    | >50 µg/mL as determined by microplate BCA method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## GENE INFORMATION

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|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>            | KCNK3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Official Symbol</b>      | KCNK3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>             | KCNK3; potassium channel, subfamily K, member 3; potassium channel subfamily K member 3; K2p3.1; TASK; TASK 1; cardiac potassium channel; two pore K(+) channel KT3.1; two P domain potassium channel; two pore potassium channel KT3.1; TWIK-related acid-sensitive K <sup>+</sup> channel; TWIK-related acid-sensitive K(+) channel 1; acid-sensitive potassium channel protein TASK; acid-sensitive potassium channel protein TASK-1; potassium inwardly-rectifying channel, subfamily K, member 3; OAT1; TBAK1; TASK-1; |
| <b>Gene ID</b>              | 3777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>mRNA Refseq</b>          | NM_002246                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Protein Refseq</b>       | NP_002237                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MIM</b>                  | 603220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>           | O14649                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SDS-PAGE of KCN3-32H</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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