

## Recombinant Human KCNA7 protein, GST-tagged

**Cat. No.** KCNA7-301232H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human KCNA7 (410-456 aa) protein, fused to GST tag, was expressed in E. coli.                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Ala410-Val456                                                                                                                                                                                                                          |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8.). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. |
| <b>AA Sequence</b>      | AGMFSHVDTQPCGPLEGKANGGLVDGEVPELPPPLWAPPGKHLVTEV                                                                                                                                                                                        |
| <b>Purity</b>           | 90%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                               |
| <b>Stability</b>        | Store for up to 12 months at -20°C to -80°C as lyophilized powder.                                                                                                                                                                     |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw cycles.   |
| <b>Reconstitution</b>   | Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.                                                                                                                                                              |

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Reconstitution with 200 µl 50% glycerol solution is recommended for longer term storage.

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                        |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | KCNA7 potassium voltage-gated channel, shaker-related subfamily, member 7 [ Homo sapiens ]                                                                                                                                                                                             |
| <b>Official Symbol</b> | KCNA7                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | KCNA7; potassium voltage-gated channel, shaker-related subfamily, member 7; potassium voltage-gated channel subfamily A member 7; HAK6; Kv1.7; voltage-gated potassium channel KCNA7; voltage-dependent potassium channel Kv1.7; voltage-gated potassium channel subunit Kv1.7; KV1.7; |
| <b>Gene ID</b>         | 3743                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_031886                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_114092                                                                                                                                                                                                                                                                              |
| <b>MIM</b>             | 176268                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | Q96RP8                                                                                                                                                                                                                                                                                 |

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