

# Recombinant Human AQP4 protein, His-tagged

**Cat. No.** AQP4-3447H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human AQP4 protein(208-323 aa), fused to His tag, was expressed in E. coli.                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                              |
| <b>ProteinLength</b>    | 208-323 aa                                                                                                                                                                                                                                                                          |
| <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, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole. |
| <b>AA Sequence</b>      | TGASMNPARSFGPAVIMGNWENHWIYWVGPIIGAVLAGGLYEYVFCPDVEFKRRFK<br>EAFSKAAQQTKGSYMEVEDNRSQVETDDLILKPGVVHVIDVDRGEEKKGKDQSGEV<br>LSSV                                                                                                                                                        |
| <b>Purity</b>           | 98%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                            |
| <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

**Gene Name** AQP4 aquaporin 4 [ Homo sapiens ]

**Official Symbol** AQP4

**Synonyms** AQP4; aquaporin 4; aquaporin-4; MIWC; WCH4; aquaporin type4; mercurial-insensitive water channel; HMIWC2; MGC22454;

**Gene ID** 361

**mRNA Refseq** NM\_001650

**Protein Refseq** NP\_001641

**MIM** 600308

**UniProt ID** P55087

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