

# Recombinant Human AQP5 Protein, His-tagged

**Cat. No.** AQP5-236H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human AQP5 Protein (Ser183-Arg265) with N-His tag was expressed in E. coli.                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | Ser183-Arg265                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | Aquaporin 5 (AQP5) is a water channel protein. Aquaporins are a family of small integral membrane proteins related to the major intrinsic protein (MIP or AQP0). Aquaporin 5 plays a role in the generation of saliva, tears and pulmonary secretions. AQP0, AQP2, AQP5, and AQP6 are closely related and all map to 12q13. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 13.3 kDa<br>Accurate Molecular Mass: 15 kDa                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>        | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for                                                                                                                                               |

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48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**Storage**

Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.

**Storage Buffer**

20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Reconstitution**

Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

**Gene Name**

AQP5 aquaporin 5 [ Homo sapiens (human) ]

**Official Symbol**

AQP5

**Synonyms**

AQP5; aquaporin 5; aquaporin-5; AQP-5

**Gene ID**

362

**mRNA Refseq**

NM\_001651

**Protein Refseq**

NP\_001642

**MIM**

600442

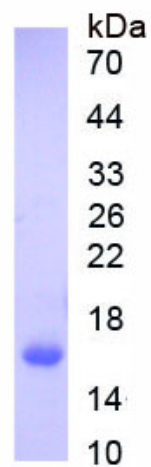
**UniProt ID**

P55064

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