

**PRODUCT INFORMATION**

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|---|---|
| <b>Tag</b>                              | C-Flag Tag  |
| <b>Target</b>                           | AQP5  |
| <b>Synonyms</b>                         | AQP-5; PPKB   |
| <b>Description</b>                      | Human AQP5 full length protein-PeptiNanodisc  |
| <b>Delivery</b>                         | In Stock  |
| <b>Uniprot ID</b>                       | P55064  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Protein Families</b>                 | Druggable Genome, Transmembrane   |
| <b>Protein Pathways</b>                 | N/A   |
| <b>Molecular Weight</b>                 | The human full length AQP5 protein has a MW of 28.3 kDa   |
| <b>Formulation &amp; Reconstitution</b> | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for   |
| <b>Storage&amp;Shipping</b>             | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.   |
| <b>Background</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>Usage</b>                            | Research use only   |
| <b>Conjugate</b>                        | Unconjugated  |



### ELISA assay to evaluate AQP5-PeptiNanodisc 0.2 $\mu$ g Human AQP5-PeptiNanodisc per well

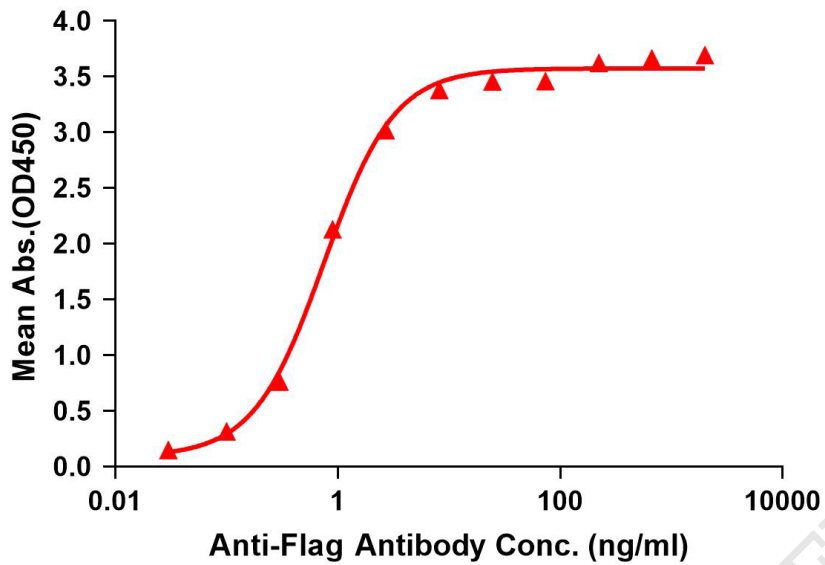


Figure 1. Elisa plates were pre-coated with C-Flag Tag AQP5-PeptiNanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC<sub>50</sub> for anti-Flag monoclonal antibody binding with AQP5-PeptiNanodisc is 0.756ng/ml.



Figure 2. Human AQP5-PeptiNanodisc, Flag Tag on SDS-PAGE



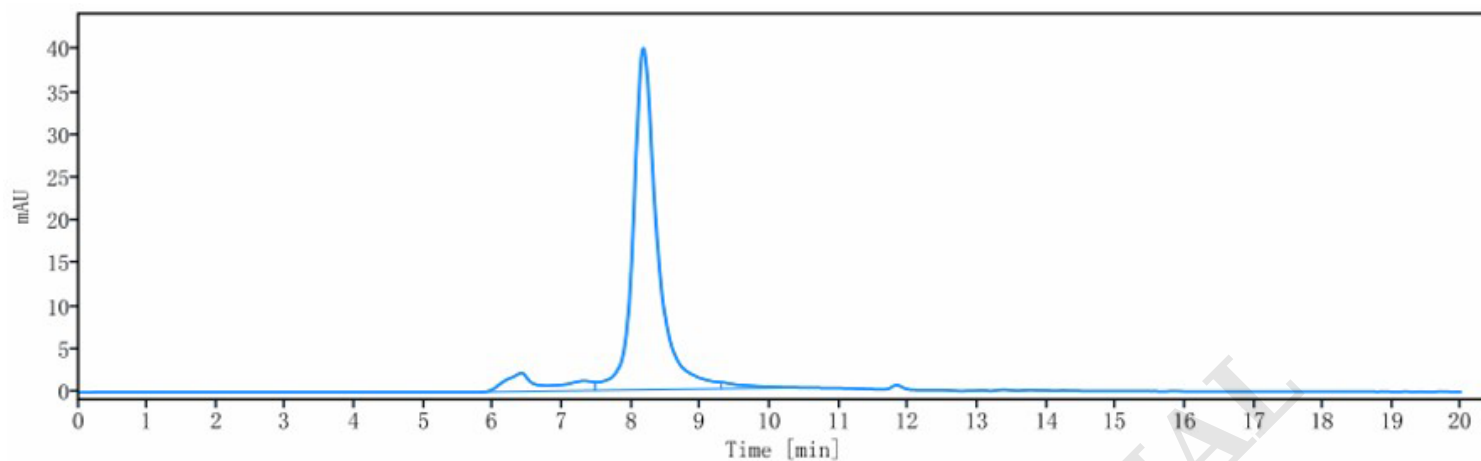


Figure 3. The purity of Human AQP5-PeptiNanodisc is greater than 90% as determined by SEC-HPLC.

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