

## AQP2 Protein, Mouse (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702213
<b>Synonyms:</b>	Aquaporin-2; ADH water channel; Aquaporin-CD; AQP-CD; Collecting duct water channel protein; WCH-CD; Water channel protein for renal collecting duct
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	P56402 (M1-A271)
<b>Gene ID:</b>	11827
<b>Molecular Weight:</b>	30.5 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> MWELRSIAFS   RAVLAEFLAT   LLFVFFGLGS   ALQWASSPPS VLQIAVAFGL   GIGTLVQALG   HVSGAHINPA   VTVACLVGCH VSFLRAAFYV   AAQLLGAVAG   AAILHEITPV   EIRGDLAVNA LHNNATAGQA   VTVELFLTMQ   LVLCIFASTD   ERRSDNLGSP ALSIGFSVTL   GHLLGIYFTG   CSMNPARSLA   PAVVTGKFDD HWVFWIGPLV   GAVIGSLLYN   YLLFPSTKSL   QERLAVLKGL EPD TDWEERE   VRRRQSVELH   SPQSLPRGSK   A           </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	AQP2 is a homotetrameric protein that plays a key role in renal water homeostasis. It acts as a water-specific channel, facilitating the movement of water across the plasma membranes of renal collecting ducts. By conferring high permeability to water, AQP2 enables water to flow in response to osmotic gradients, thus contributing to the regulation of water balance in the kidneys. Its crucial function in maintaining proper water levels underscores its significance in renal physiology and
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highlights its importance in overall body fluid regulation.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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