

AQP2 Protein, Rat (Cell-Free, His)

Cat. No.:	HY-P702214
Synonyms:	Aquaporin-2; ADH water channel; Aquaporin-CD; AQP-CD; Collecting duct water channel protein; WCH-CD; Water channel protein for renal collecting duct
Species:	Rat
Source:	E. coli Cell-free
Accession:	P34080 (M1-A271)
Gene ID:	25386
Molecular Weight:	30.4 kDa

PROPERTIES

AA Sequence	<pre> MWELRSIAFS RAVLAEFLAT LLFVFFGLGS ALQWASSPPS VLQIAVAFGL GIGILVQALG HVSGAHINPA VTVACLVGCH VSFLRAAFYV AAQLLGAVAG AAILHEITPV EIRGDLAVNA LHNNATAGQA VTVELFLTMQ LVLCIFASTD ERRGDNLGSP ALSIGFSVTL GHLLGIYFTG CSMNPARSLA PAVVTGKFDD HWVFWIGPLV GAIIGSLLYN YLLFPSAKSL QERLAVLKGL EPD TDWEERE VRRRQSVELH SPQSLPRGSK A </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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.
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	AQP2 Protein functions as a water-specific channel, endowing the plasma membranes of renal collecting ducts with high permeability to water, allowing its movement along an osmotic gradient. Integral to renal water homeostasis, AQP2 contributes significantly to the regulation of water reabsorption in the kidneys. The protein exists as a homotetramer, forming a critical component in the selective transport of water through renal tissues.
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Caution: Product has not been fully validated for medical applications. For research use only.

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