

Aquaporin-1 (AQP1) Active Protein | AQP1 active protein

Recombinant Human Aquaporin-1 (AQP1) (Active)

CATALOG #
AAA230604

HOST
In vitro E Coli expression system

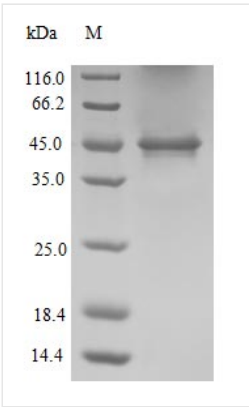
PRODUCT SYNONYMS

Aquaporin-1 (AQP1); Recombinant Human Aquaporin-1 (AQP1) (Active); Aquaporin-CHIP; Urine water channel; Water channel protein for red blood cells and kidney proximal tubule; AQP1 active protein

PRODUCT SPECIFICATIONS

Host	In vitro E Coli expression system
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Liquid or Lyophilized Powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, p
Sequence Positions	2-269aa; Full Length of Mature Protein
Sequence	ASEFKKKLFW RAVVAEFLAT TLFVFISIGS ALGFKYPVGN NQTAVQDNVK VSLAFGLSIA TLAQSVGHIS GAHLNPAVTL GLLSCQISI FRALMYIIAQ CVGAIVATAI LSGITSSLTG NSLGRNDLAD GVNSGQGLGI EIIGTLQLVL CVLATTDRRR RDLGGSAPLA IGLSVALGHL LAIDYTGCGI NPARSFGSAV ITHNFSNHWI FWVGPFIGGA LAVLIYDFIL APRSSDLTDR VKVWTSGQVE EYDL DADDIN SRVEMKPK
Species	Human
Tag	N-terminal 6xHis-SUMO-tagged
Endotoxin	Not test.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized AQP1 at 2 ug/ml can bind human RGS17, the EC50 of human RGS17 protein is 31.63-34.44 ug/ml.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20 degree C/-80 degree C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Preparation and Storage	Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



SDS-PAGE
Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

ADDITIONAL INFORMATION

Related Product Information for AQP1 active protein	Forms a water-specific channel that provides the plasma membranes of red cells and kidney proximal tubules with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient.
Product Categories/Family for AQP1 active protein	Signal Transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	297307116
UniProt Accession #	P29972
Molecular Weight	44.4 kDa
UniProt Protein Name	Aquaporin-1
UniProt Gene Name	AQP1
UniProt Synonym Gene Names	CHIP28; AQP-1
UniProt Entry Name	AQP1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.