

Aquaporin-1/AQP1 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	AQP-1;Urine water channel;CHIP28;Channel-like integral membrane protein of 28 kDa;AQP1; Aquaporin-CHIP;Aquaporin-1
Protein Construction:	220-269 aa
Species:	Human
Expression Host:	E. coli
Accession:	P29972
Molecular Weight:	21.6 kDa (predicted)
AA Sequence:	GALAVLIYDFILAPRSSDLTRVKVWTSQVVEEYDLADDDINSRVEMKPK

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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