

Aquaporin Z Protein, E. coli, Recombinant (His)

General Information

Synonyms:	Water channel AqpZ;Aquaporin Z;Bacterial nodulin-like intrinsic protein;bniP;aqpZ
Protein Construction:	1-231 aa
Species:	E. coli
Expression Host:	E. coli
Accession:	P60844
Molecular Weight:	27.7 kDa (predicted)
AA Sequence:	MFRKLAAEFCGTFWLVFVGGCGSAVLAAGFPELGIGFAGVALAFGLTTLTMAFAVGHISGGHFNPAVTIGLWA GGRFPAKEVVGIVIAQVVGIVAAALLYLIASGKTGFDAASGFASNGYGEHSPGGYSMLSALVVELVLSAGF LLVIHGATDKFAPAGFAPAIAGLALTLIHLISIPVTNTSVNPARSTAVAIFQGGWALEQLWFFWVVPVGGIIGGLI YRTLLEKRD

QC Testing

Biological Activity:	Measured by its binding ability in a functional ELISA. Immobilized aqpZ at 5 µg/mL can bind E.coli ytfE, the EC50 of E.coli ytfE protein is 197.90-259.70 µg/mL.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg 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

Channel that permits osmotically driven movement of water in both directions. It is involved in the osmoregulation and in the maintenance of cell turgor during volume expansion in rapidly growing cells. It mediates rapid entry or exit of water in response to abrupt changes in osmolarity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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