

Recombinant Escherichia coli Aquaporin Z (aqpZ) Recombinant Protein | AQPZ recombinant protein

Recombinant Escherichia coli Aquaporin Z (aqpZ)(Active)

CATALOG # AAA279388	HOST E coli (in vitro)
-------------------------------	----------------------------------

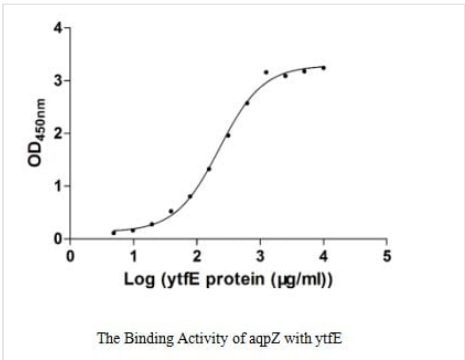
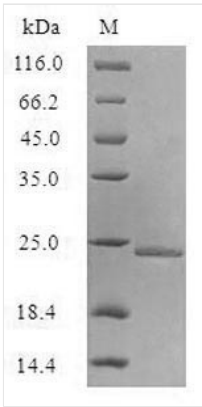
PRODUCT SYNONYMS

Recombinant Escherichia coli Aquaporin Z (aqpZ); Recombinant Escherichia coli Aquaporin Z (aqpZ)(Active); Bacterial nodulin-like intrinsic protein; AQPZ recombinant protein

PRODUCT SPECIFICATIONS

Host	E coli (in vitro)
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Lyophilized powder. Lyophilized from 20 mM Tris-HCl, 0.15 M NaCl, 0.05% FOS12, 6% Trehalose, pH 8.0
Sequence	MFRKLAAECF GTFWLVFGGC GSAVLAAGFP ELGIGFAGVA LAFGLTVLTM AFAVGHISGG HFNPAVTIGL WAGGRFPAKE VVGYYIAQVV GGIVAAALLY LIASGKTGFD AAASGFASNG YGEHSPGGYS MLSALVVELV LSAGFLLVIH GATDKFAPAG FAPIAIGLAL TLIHLISIPV TNTSVNPARS TAVAIFQGGW ALEQLWFFWV VPIVGGIIGG LIYRTLLEKR D
Sequence Length	1-231aa; Full Length
Species	Escherichia coli (strain K12)
Tag	N-terminal 6xHis-tagged
Transmembrane Domain	6TM
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized aqpZ at 5ug/ml can bind E coli ytfE, the EC50 of E coli ytfE protein is 197.90-259.70ug/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	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 degree C/-80 degree C. The shelf life of lyophilized form is 12 months at -20 degree C/-80 degree C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.

IMAGES



Bioactivity

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

ADDITIONAL INFORMATION

Related Product Information for AQPZ recombinant protein	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
Product Categories/Family for AQPZ recombinant protein	Microbiology

NCBI AND UNIPROT INFORMATION

NCBI GI #	16128843
NCBI GeneID	945497
NCBI Accession #	NP_415396.1
NCBI GenBank Nucleotide #	NC_000913.2
UniProt Accession #	P60844; P48838; P75827; Q47159
Molecular Weight	23,703 Da
NCBI Official Full Name	aquaporin Z
NCBI Official Symbol	aqpZ
NCBI Official Synonym Symbols	bniP; ECK0866; JW0859
NCBI Protein Information	aquaporin Z
UniProt Protein Name	Aquaporin Z
UniProt Gene Name	aqpZ
UniProt Synonym Gene Names	bniP
UniProt Entry Name	AQPZ_ECOLI

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.