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Datasheet for ABIN3117030 AQP3 Protein (AA 1-292) (Strep Tag)





Overview

Quantity:	1 mg
Target:	AQP3
Protein Characteristics:	AA 1-292
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQP3 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MGRQKELVSR CGEMLHIRYR LLRQALAECL GTLILVMFGC GSVAQVVLSR GTHGGFLTIN
	LAFGFAVTLG ILIAGQVSGA HLNPAVTFAM CFLAREPWIK LPIYTLAQTL GAFLGAGIVF
	GLYYDAIWHF ADNQLFVSGP NGTAGIFATY PSGHLDMING FFDQFIGTAS LIVCVLAIVD
	PYNNPVPRGL EAFTVGLVVL VIGTSMGFNS GYAVNPARDF GPRLFTALAG WGSAVFTTGQ
	HWWWVPIVSP LLGSIAGVFV YQLMIGCHLE QPPPSNEEEN VKLAHVKHKE QI
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	
Characteristics:	have a special request, please contact us.
Characteristics:	have a special request, please contact us. Key Benefits:

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- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	AQP3
Alternative Name:	AQP3 (AQP3 Products)
Background:	Aquaporin-3 (AQP-3) (Aquaglyceroporin-3),FUNCTION: Water channel required to promote
	glycerol permeability and water transport across cell membranes (PubMed:12239222,
	PubMed:30420639). Acts as a glycerol transporter in skin and plays an important role in
	regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration,
	wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high
	permeability to water, thereby permitting water to move in the direction of an osmotic gradient.
	Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresi
	in collecting duct cells. It may play an important role in gastrointestinal tract water transport
	and in glycerol metabolism (By similarity). {ECO:0000250 UniProtKB:Q8R2N1,
	ECO:0000269 PubMed:12239222, ECO:0000269 PubMed:30420639}.
Molecular Weight:	31.5 kDa
UniProt:	Q92482
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!
Restrictions:	For Research Lise only

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Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process