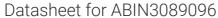
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Aquaporin 4 Protein (AQP4) (AA 1-323) (rho-1D4 tag, His tag)



Images



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0.5 mg
Aquaporin 4 (AQP4)
AA 1-323
Human
Insect Cells
Recombinant
This Aquaporin 4 protein is labelled with rho-1D4 tag, His tag.
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
MTETSQVAPA GSSGHHHHHH SDRPTARRWG KCGPLCTREN IMVAFKGVWT QAFWKAVTAE
FLAMLIFVLL SLGSTINWGG TEKPLPVDMV LISLCFGLSI ATMVQCFGHI SGGHINPAVT
VAMVCTRKIS IAKSVFYIAA QCLGAIIGAG ILYLVTPPSV VGGLGVTMVH GNLTAGHGLL
VELIITFQLV FTIFASCDSK RTDVTGSIAL AIGFSVAIGH LFAINYTGAS MNPARSFGPA
VIMGNWENHW IYWVGPIIGA VLAGGLYEYV FCPDVEFKRR FKEAFSKAAQ QTKGSYMEVE
DNRSQVETDD LILKPGVVHV IDVDRGEEKK GKDQSGEVLS SV
Sequence including N-terminal Rho1D4 tag and N-terminal His-tag.
Made in Germany - from design to production - by highly experienced protein experts.
Human AQP4 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure erroteilization grade.
to ensure crystallization grade. • State-of-the-art algorithm used for plasmid design (Gene synthesis).
The concentration of our recombinant proteins is measured using the absorbance at 280nm.

Product Details

Troduct Details	
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Three step purification of membrane proteins expressed in baculovirus infected SF9 insect
	cells:
	1. The protein is purified from the cleared cell lysate using His-tag capture materials.
	2. Eluate fractions are analyzed by SDS-PAGE.
	Protein containing fractions are subjected to second purification step through size exclusion chromatograph. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade
Target Details	
Target:	Aquaporin 4 (AQP4)
Alternative Name:	AQP4 (AQP4 Products)
Background:	Forms a water-specific channel. Osmoreceptor which regulates body water balance and
	mediates water flow within the central nervous system.
Molecular Weight:	36.8 kDa Including tag.
UniProt:	P55087
Pathways:	Sensory Perception of Sound
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:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to

Application Details

Approache. Detaile		
	receive your protein of interest.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	In solution (20 mM Hepes, pH 8.0, 150 mM NaCl, 0,8 % Octylglucopyranoside)	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

Images

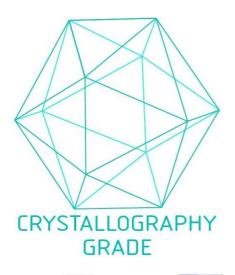
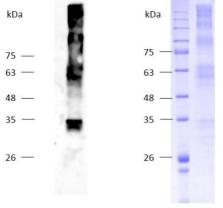
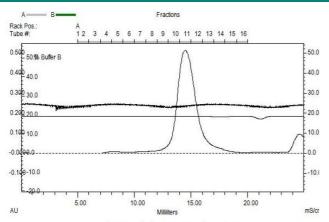


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process



Aquaporin 4 (APQ4) (AA 1-323); fraction 10 - 12 Image 2.



Aquaporin 4 (APQ4) (AA 1-323), gel filtration Superose 6; fraction 10 - 12

Image 3.