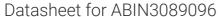
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Aquaporin 4 Protein (AQP4) (AA 1-323) (rho-1D4 tag, His tag)





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| Quantity: | 0.5 mg |
|-------------------------------|---|
| Target: | Aquaporin 4 (AQP4) |
| Protein Characteristics: | AA 1-323 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This Aquaporin 4 protein is labelled with rho-1D4 tag, His tag. |
| Application: | Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys) |
| Product Details | |
| Sequence: | 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. |
| Characteristics: | 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 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

| | 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

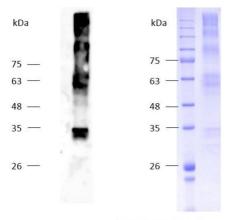
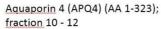
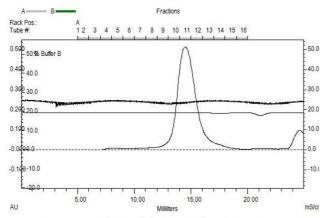


Image 1.





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

Image 2.