

Datasheet for ABIN7552170

Aquaporin 10 Protein (AQP10) (AA 1-301) (His tag)



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Overview

Quantity:	1 mg
Target:	Aquaporin 10 (AQP10)
Protein Characteristics:	AA 1-301
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aquaporin 10 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AQP10 Protein expressed in mammalian cells.
Sequence:	<p>MVFTQAPAEI MGHLRIRLL ARQCLAEFLG VFVLMLLTQG AVAQAVTSGE TKGNFFTMFL AGSLAVTIAI YVGGNVSGAH LNPAFSLAMC IVGRLPWVKL PIYILVQLLS AFCASGATYV LYHDALQNYT GGNLTVTGPKE ETASIFATYP APYLSLNNGF LDQVLGTGML IVGLLAILDR RNKGVPALE PVVVGMLILA LGLSMGANCG IPLNPARDLG PRLFTYVAGW GPEVFSAGNG WWWPVVAPL VGATVGTATY QLLVALHHPE GPEPAQDLVS AQHKASELET PASAQMLECK L</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

Target Details

Target: Aquaporin 10 (AQP10)

Alternative Name: AQP10 ([AQP10 Products](#))

Background: Aquaporin-10 (AQP-10) (Aquaglyceroporin-10) (Small intestine aquaporin),FUNCTION: [Isoform 1]: Water channel that mediates water transport across cell membranes irrespective of the cytosolic pH (PubMed:12084581, PubMed:21733844, PubMed:23382902, PubMed:30420639). The channel is permeable to glycerol, especially when the cytosolic pH is acidified (PubMed:21733844, PubMed:30420639). Contributes to adipocyte water and glycerol permeability, and may thereby contribute to the utilization of glycerol derived from phospholipid degradation (PubMed:23382902). May contribute to water transport in the intestine (Probable). {ECO:0000269|PubMed:12084581, ECO:0000269|PubMed:21733844, ECO:0000269|PubMed:23382902, ECO:0000269|PubMed:30420639, ECO:0000305|PubMed:11573934, ECO:0000305|PubMed:12084581, ECO:0000305|PubMed:15221416}, FUNCTION: [Isoform 2]: Water channel that mediates water transport across cell membranes, but that is not permeable to glycerol. {ECO:0000269|PubMed:11573934}.

Molecular Weight: 31.8 kDa

Target Details

UniProt: [Q96PS8](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months