Datasheet for ABIN7552172

Aquaporin 7 Protein (AQP7) (AA 1-342) (His tag)

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Overview

Quantity:	1 mg
Target:	Aquaporin 7 (AQP7)
Protein Characteristics:	AA 1-342
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aquaporin 7 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AQP7 Protein expressed in mammalien cells.
Sequence:	MVQASGHRRS TRGSKMVSWS VIAKIQEILQ RKMVREFLAE FMSTYVMMVF GLGSVAHMVL NKKYGSYLGV NLGFGFGVTM GVHVAGRISG AHMNAAVTFA NCALGRVPWR KFPVYVLGQF LGSFLAAATI YSLFYTAILH FSGGQLMVTG PVATAGIFAT YLPDHMTLWR GFLNEAWLTG MLQLCLFAIT DQENNPALPG TEALVIGILV VIIGVSLGMN TGYAINPSRD LPPRIFTFIA GWGKQVFSNG ENWWWVPVVA PLLGAYLGGI IYLVFIGSTI PREPLKLEDS VAYEDHGITV LPKMGSHEPT ISPLTPVSVS PANRSSVHPA PPLHESMALE HF **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.**
Characteristics:	Key Benefits:

Product Details

	• Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien 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 7 (AQP7)
Alternative Name:	AQP7 (AQP7 Products)
Background:	Aquaporin-7 (AQP-7) (Aquaglyceroporin-7) (Aquaporin adipose) (AQPap) (Aquaporin-7-like),FUNCTION: Forms a channel that mediates water and glycerol transport across cell membranes at neutral pH (PubMed:9405233, PubMed:11952783, PubMed:30423801, PubMed:30420639). The channel is also permeable to urea (PubMed:9405233). Plays an important role in body energy homeostasis under conditions that promote lipid catabolism, giving rise to glycerol and free fatty acids. Mediates glycerol export from adipocytes. After release into the blood stream, glycerol is used for gluconeogenesis in the liver to maintain normal blood glucose levels and prevent fasting hypoglycemia. Required for normal glycerol reabsorption in the kidney (By similarity). {ECO:0000250|UniProtKB:O54794, ECO:0000269|PubMed:11952783, ECO:0000269|PubMed:30420639, ECO:0000269|PubMed:30423801, ECO:0000269|PubMed:9405233}.
Molecular Weight:	37.2 kDa
UniProt:	O14520

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

