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Datasheet for ABIN7556256

## Aquaporin 5 Protein (AQP5) (AA 1-265) (His tag)

### Overview

Quantity:	1 mg
Target:	Aquaporin 5 (AQP5)
Protein Characteristics:	AA 1-265
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Aquaporin 5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat Aqp5 Protein expressed in mammalien cells.
Sequence:	MKKEVCSVAF FKAVFAEFLA TLIFVFFGLG SALKWPSALP TILQISIAFG LAIGTLAQAL GPVSGGHINP AITLALLIGN QISLLRAIFY VAAQLVGAIA GAGILYWLAP GNARGNLAVN ALSNNTTPGK AVVVELILTF QLALCIFSST DSRRTSPVGS PALSIGLSVT LGHLVGIYFT GCSMNPARSF GPAVVMNRFS PSHWVFWVGP IVGAVLAAIL YFYLLFPSSL SLHDRVAVVK GTYEPEEDWE DHREERKKT I ELTAH <b>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.</b>
Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalien cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and</li></ul>

## Product Details

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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.

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

Grade: custom-made

## Target Details

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Target: Aquaporin 5 (AQP5)

Alternative Name: Aqp5 ([AQP5 Products](#))

Background: Aquaporin-5 (AQP-5),FUNCTION: Forms a water-specific channel (By similarity). Plays an important role in fluid secretion in salivary glands (PubMed:10400615, PubMed:16571723, PubMed:18027168). Required for TRPV4 activation by hypotonicity. Together with TRPV4, controls regulatory volume decrease in salivary epithelial cells (PubMed:16571723). Seems to play a redundant role in water transport in the eye, lung and in sweat glands (PubMed:10619865, PubMed:12042359, PubMed:18027168).

{ECO:0000250|UniProtKB:P55064, ECO:0000269|PubMed:10400615, ECO:0000269|PubMed:10619865, ECO:0000269|PubMed:12042359, ECO:0000269|PubMed:16571723, ECO:0000269|PubMed:18027168}.

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Molecular Weight: 28.3 kDa

UniProt: [Q9WTY4](#)

## Application Details

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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.

## Application Details

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Restrictions: For Research Use only

## Handling

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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