

Datasheet for ABIN7552261
AQP3 Protein (AA 1-292) (His tag)



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Overview

Quantity:	1 mg
Target:	AQP3
Protein Characteristics:	AA 1-292
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AQP3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat AQP3 Protein expressed in mammalian cells.
Sequence:	MGRQKELVSR CGEMLHIRYR LLRQALAECL GTLILVMFGC GSVAQVLSR GTHGGFLTIN LAFGFAVTLG ILIAGQVSGA HLNPAVTFAM CFLAREPWIK LPIYTLAQTL GAFLGAGIVF GLYYDAIWHF ADNQLFVSGP NGTAGIFATY PSGHLDMING FFDQFIGTAS LIVCVLAIVD PYNPNVPRGL EAFTVGLVVL VIGTSMGFNS GYAVNPARDF GPRLFTALAG WGSVFTTGQ HWWWVPIVSP LLGSIAGVFV YQLMIGCHLE QPPPSNEEEN VKLAHVKHKE QI 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: <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
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Grade:	custom-made
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Target Details

Target:	AQP3
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Alternative Name:	AQP3 (AQP3 Products)
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Background:	Aquaporin-3 (AQP-3) (Aquaglyceroporin-3),FUNCTION: Water channel required to promote glycerol permeability and water transport across cell membranes (PubMed:12239222, PubMed:30420639). Acts as a glycerol transporter in skin and plays an important role in regulating SC (stratum corneum) and epidermal glycerol content. Involved in skin hydration, wound healing, and tumorigenesis. Provides kidney medullary collecting duct with high permeability to water, thereby permitting water to move in the direction of an osmotic gradient. Slightly permeable to urea and may function as a water and urea exit mechanism in antidiuresis in collecting duct cells. It may play an important role in gastrointestinal tract water transport and in glycerol metabolism (By similarity). {ECO:0000250 UniProtKB:Q8R2N1, ECO:0000269 PubMed:12239222, ECO:0000269 PubMed:30420639}.
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Molecular Weight:	31.5 kDa
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UniProt:	Q92482
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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
