

Datasheet for ABIN7552404
ATP4b Protein (AA 1-291) (His tag)



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Overview

Quantity:	1 mg
Target:	ATP4b
Protein Characteristics:	AA 1-291
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP4b protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP4B Protein expressed in mammalian cells.
Sequence:	MAALQEKKTC GQRMEEFQRY CWNPD TGQML GRTL SRVWVI SLYYVAFYVV MTGLFALCLY VLMQTVDPYT PDYQDQLRSP GVTLRPDVYG EKGLEIVYNV SDNRTWADLT QTLHAFLAGY SPAAQEDSIN CTSEQYFFQE SFRAPNHTKF SCKFTADMLQ NCSGLADPNF GFEEGKPCFI IKMNRIVKFL PSNGSAPRVD CAFLDQPREL GQPLQVKYYP PNGTFSLHYF PYYGKKAQPH YSNPLVAAKL LNIPRNAEVA IVCKVMAEHV TFNNPHDPYE GKVEFKLKIE K 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.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	ATP4b
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Alternative Name:	ATP4B (ATP4b Products)
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Background:	<p>Potassium-transporting ATPase subunit beta (Gastric H(+)/K(+) ATPase subunit beta) (Proton pump beta chain),FUNCTION: The beta subunit of the gastric H(+)/K(+) ATPase pump which transports H(+) ions in exchange for K(+) ions across the apical membrane of parietal cells. Plays a structural and regulatory role in the assembly and membrane targeting of a functionally active pump (By similarity). Within a transport cycle, the transfer of a H(+) ion across the membrane is coupled to ATP hydrolysis and is associated with a transient phosphorylation of the alpha subunit that shifts the pump conformation from inward-facing (E1) to outward-facing state (E2). Interacts with the phosphorylation domain of the alpha subunit and functions as a ratchet, stabilizing the luminal-open E2 conformation and preventing the reverse reaction of the transport cycle (By similarity). {ECO:0000250 UniProtKB:P18597, ECO:0000250 UniProtKB:P19156}.</p>
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Molecular Weight:	33.4 kDa
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UniProt:	P51164
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Target Details

Pathways: [Proton Transport](#)

Application Details

Application Notes: We expect the protein to work for functional studies. 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