

Datasheet for ABIN7552456
ATP1B1 Protein (AA 1-303) (His tag)



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Overview

Quantity:	1 mg
Target:	ATP1B1
Protein Characteristics:	AA 1-303
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP1B1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP1B1 Protein expressed in mammalian cells.
Sequence:	MARGKAKEEG SWKKFIWNSE KKEFLGRTGG SWFKILLFYV IFYGCLAGIF IGTIQVMLLT ISEFKPTYQD RVAPPGLTQI PQIQKTEISF RPNDPKSYEA YVLNIVRFLE KYKDSAQRDD MIFEDCGDVP SEPKERGDFN HERGERKVCR FKLEWLGNCs GLNDETYGYK EGKPCIIKL NRVLGFKPKP PKNESLETYP VMKYNPVLP VQCTGKRDED KDKVGNVEYF GLGNSPGFPL QYYPPYGKLL QPKYLQPLLA VQFTNLTMDT EIRIECKAYG ENIGYSEKDR FQGRFDVKIE VKS 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:	ATP1B1
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Alternative Name:	ATP1B1 (ATP1B1 Products)
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Background:	Sodium/potassium-transporting ATPase subunit beta-1 (Sodium/potassium-dependent ATPase subunit beta-1),FUNCTION: This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane (PubMed:19694409). Plays a role in innate immunity by enhancing virus-triggered induction of interferons (IFNs) and interferon stimulated genes (ISGs). Mechanistically, enhances the ubiquitination of TRAF3 and TRAF6 as well as the phosphorylation of TAK1 and TBK1 (PubMed:34011520). {ECO:0000269 PubMed:19694409, ECO:0000269 PubMed:34011520},, FUNCTION: Involved in cell adhesion and establishing epithelial cell polarity. {ECO:0000269 PubMed:19694409}.
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Molecular Weight:	35.1 kDa
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UniProt:	P05026
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Target Details

Pathways: [Thyroid Hormone Synthesis](#), [Ribonucleoside Biosynthetic Process](#), [SARS-CoV-2 Protein Interactome](#)

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