

Datasheet for ABIN7552479

ATP12A Protein (AA 1-1039) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ATP12A
Protein Characteristics:	AA 1-1039
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP12A protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat ATP12A Protein expressed in mammalien cells.
Sequence:	MHQKTPEIYS VELSGTKDIV KTDKGDGKEK YRGLKNNCLE LKKKNHKEEF QKELHLDDHK LSNRELEEKY GTDIIMGLSS TRAAELLARD GPNSLTTPPKQ TPEIVKFLKQ MVGGSILLW VGAFLCWIAY GIQYSSDKSA SLNNVYLGCV LGLVVILTGI FAYYQEAKST NIMSSFNKMI PQQALVIRDS EKKTIPSEQL VVGDIVKVG GDQIPADIRV LSSQGCRVDN SSLTGESEPP PRSEFTHEN PLETKNICFY STTCLEGTVT GMVINTGDRT IIGHIASLAS GVGNEKTPIA IEIEHFVHIV AGVAVSIGIL FFIIAVSLKY QVLDSIIFLI GIIVANVPEG LLATVTVTLS LTAKRMAKKN CLVKNLEAVE TLGSTSIICS DKTGTLTQNR MTVAHLWFDN QIFVADTSED HSNQVFDQSS RTWASLSKII TLCNRAEFKP GQENVPIMKK AVIGDASETA LLKFSEVILG DVMEIRKRNR KVAEIPFNST NKFQLSIHEM DDPHGKRFLM VMKGAPERIL EKCSTIMING EEHPLDKSTA KTFHTAYMEL GGLGERVLGF CHLYLPADEF PETYSFDIDA MNFPTSNLCF VGLLSMIDPP RSTVPAVTK CRSAGIKVIM VTGDHPITAK AIAKSVGIIS ANSETVEDIA HRLNIAVEQV

Product Details

NKRDAKAAVV TGMELKDMSS EQLDEILANY QEIVFARTSP QQKLIIVEGC QRQDAVVAVT
GDGVNDSPAL KKADIGIAMG IAGSDAAKNA ADMVLLDDNF ASIVTGVEEG RLIFDNLKKT
IAYSLTKNIA ELCPFLEYII VGLPLPIGTI TILFIDLGTD IIPSIALAYE KAESDIMNRK PRHKNKDRLV
NQPLAVYSYL HIGLMQALGA FLVYFTVYAQ EGFLPRTLIN LRVEWEKDYYV NDLKDSYGQE
WTRYQREYLE WTGYTAFFVG ILVQQIADLI IRKTRRNSIF QQGLFRNKVI WVGITSQIII GLILSYGLGS
VTALSFTMLR AQYWFVAVPH AILIWVYDEV RKLFIIRLYPG SWWDKNMYY **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:

- 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, Western Blot

Grade:

custom-made

Target Details

Target:

ATP12A

Alternative Name:

ATP12A ([ATP12A Products](#))

Background:

Potassium-transporting ATPase alpha chain 2 (HK alpha 2) (Non-gastric H⁽⁺⁾/K⁽⁺⁾ ATPase subunit alpha) (EC 7.2.2.19) (Non-gastric Na⁽⁺⁾/K⁽⁺⁾ ATPase subunit alpha) (EC 7.2.2.13) (Proton pump) (Sodium pump),FUNCTION: The catalytic subunit of a H⁽⁺⁾/K⁽⁺⁾ ATPase and/or Na⁽⁺⁾/K⁽⁺⁾ ATPase pump which transports K⁽⁺⁾ ions in exchange for Na⁽⁺⁾ and/or H⁽⁺⁾ ions

Target Details

across the apical membrane of epithelial cells. Uses ATP as an energy source to pump K(+) ions into the cell while transporting Na(+) and/or H(+) ions to the extracellular compartment (PubMed:9774385, PubMed:7485470, PubMed:8853415, PubMed:11341842). Involved in the maintenance of electrolyte homeostasis through K(+) ion absorption in kidney and colon (By similarity). In the airway epithelium, may play a primary role in mucus acidification regulating its viscosity and clearance (PubMed:29391451). {ECO:0000250|UniProtKB:Q9Z1W8, ECO:0000269|PubMed:11341842, ECO:0000269|PubMed:29391451, ECO:0000269|PubMed:7485470, ECO:0000269|PubMed:8853415, ECO:0000269|PubMed:9774385}.

Molecular Weight: 115.5 kDa

UniProt: [P54707](#)

Pathways: [Proton Transport, Ribonucleoside Biosynthetic Process](#)

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