

Datasheet for ABIN7564137

## ATP1A3 Protein (AA 1-1013) (His tag)



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### Overview

Quantity:	1 mg
Target:	ATP1A3
Protein Characteristics:	AA 1-1013
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP1A3 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Atp1a3 Protein expressed in mammalian cells.
Sequence:	<p>MGDKKDDKSS PKKSKAKERR DLDDLKKEVA MTEHKMSVEE VCRKYNTDCV QGLTHSKAQE</p> <p>ILARDGPNAL TPPPTTPEWV KFCRQLFGGF SILLWIGAIL CFLAYGIQAG TEDDPGSDNL</p> <p>YLGIVLAAVV IITGCFSSYYQ EAKSSKIMES FKNMVPQQAL VIREGEKMQV NAEVWVGDL</p> <p>VEIKGGDRVP ADLRIISAHG CKVDNSSLTG ESEPQTRSPD CTHDNPLETR NITFFSTNCV</p> <p>EGTARGVVVA TGDRTVMGRI ATLASGLEVG KTPIAIEIEH FIQLITGVAV FLGVSFFILS</p> <p>LILGYTWLEA VIFLIGIIVA NVPEGLLATV TVCLTLTAKR MARKNCLVKN LEAVETLGST</p> <p>STICSDKTGT LTQNRMTVAH MWFDNQIHEA DTEDQSGTS FDKSSHTWVA LSHIAGLCNR</p> <p>AVFKGGQDNI PVLKRDVAGD ASESALLKCI ELSSGSVKLM RERNKKVAEI PFNSTNKYQL</p> <p>SIHETEDPND NRYLLVMKGA PERILDRCAT ILLQGKEQPL DEEMKEAFQN AYLELGGGLGE</p> <p>RVLGFCHYYL PEEQFPKGFA FDCDDVNFTT DNLCFVGLMS MIDPPRAAVP DAVGKCRSAG</p> <p>IKVIMVTGDH PITAKAIAKG VGIISEGNET VEDIAARLNI PVSQVNPRDA KACVIHGTDL</p> <p>KDFTSEQIDE ILQNHTEIVF ARTSPQQKLI IVEGCQRQGA IVAVTGDGVN DSPALKKADI</p>

GVAMGIAGSD VSKQAADMIL LDDNFASIVT GVEEGRILFD NLKKSIAAYTL TSNIEITPF  
LLFIMANIPL PLGTITILCI DLGTDMPAI SLAYEAAESD IMKRQPRNPR TDCLVNERLI  
SMAYGQIGMI QALGGFFSYF VILAENGFLP GNLVGIRLNW DDRTVNDLED SYGQQWTYEQ  
RKVVEFTCHT AFFVSIVVVQ WADLIICKTR RNSVFQQGMK NKILIFGLFE ETALAAFLSY  
CPGMDVALRM YPLKPSWWFC AFPYSFLIFV YDEIRKLILR RNPGGWVEKE TYY **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:	<p>Key Benefits:</p> <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 mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	ATP1A3
Alternative Name:	Atp1a3 ( <a href="#">ATP1A3 Products</a> )
Background:	Sodium/potassium-transporting ATPase subunit alpha-3 (Na(+)/K(+) ATPase alpha-3 subunit (EC 7.2.2.13) (Na(+)/K(+) ATPase alpha(III) subunit) (Sodium pump subunit alpha-3),FUNCTION: This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP

## Target Details

coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients (By similarity). {ECO:0000250}.

Molecular Weight: 111.7 kDa

UniProt: [Q6PIC6](#)

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

## 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