

Datasheet for ABIN7565227
ATP1A4 Protein (AA 1-1032) (His tag)



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Overview

Quantity:	1 mg
Target:	ATP1A4
Protein Characteristics:	AA 1-1032
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP1A4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Atp1a4 Protein expressed in mammalian cells.
Sequence:	<p>MEPGKEKEVE APGELNQKPR PSTRSSTNR QPKMKRRKRD LEELKKEVVM DDHKLTLDEL SAKYSVDLTK GLSILEAQDI LFQNGPNVLT PPPTTPEWVK FCRQLFGGFS LLLWTGACLC FLAYGIHVNY YKENANKDNL YLGIVLSAVV IITGCFSYYQ EAKSSKIMES FKNMVPQQAL VIRDGEKMQUI NVRDVVLGDL VEVKGGDQIP ADIRVISAQG CKVDNSSLTG ESEPQSRCPD CTHENPLETR NIIFFSTNCV EGTARGIVIA TGDYTVMGRI ASLTSGLQMG KTIPIATEIEH FIHLITAVAV FLGVSFFWLS IILGYTWLDA VIFLIGIIVA NVPEGLLATV TVCLTLTAKR MARKNCLVKN LEAVETLGST STICSDKTGT LTQNRMTVAH LWFDKTVYEA DTSEEQTTGK TFPKSSDTWF YLARIAGLCN RADFKPHQES VPIAKRATTG DASESALLKF IEQSYNPVSE MRQKNPKVAE IPFNSTNKYQ MSIHLLLEDNS EAHVLLMKGA PERIFDFCSS FLLNGQEYPM DEEMKMDFQN AYIELGGLGE RVLGFCFLNL PSNFSKGFQF NTDELNFPME NLCFAGLISM IDPPRTAVPD AVSKCRSAGI KVIMVTGDHP ITAKAIAKSV GIISEGNDTA EDIAARLNIP ISQVNNKSVK AIVVHGSELK DMESQQLDDI LKSYKEIVFA RTSPQQKLII VEGCQRLGAI</p>

Product Details

VAVTGDGVND SPALKKADIG IAMGITGSDV SKQAADMILL DDNFASIVTG VEEGRLIFDN
LKKSIAAYTLT SNIPEITPFL LFIILSIPLP LGTITILCID LGTDMVPAIS LAYESPESDI MKRLPRNPKT
DNLVNNRLIG MAYGQIGMIQ ALAGFFTYFV ILAENGFKPL DLLGIRLYWD DTQLNDLEDS
YGQQWTYEQR KVVEFTCQTA FFISIVVQW ADLIICKTRR NSLQKGMKN KILIFGLLEE
TVLAAFLSYV PGMDVSLRMY PLKINWWFCA LPYSVLIFVY DEIRKLIIRR RPPGWLEKET YY

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:

- 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)

Grade: custom-made

Target Details

Target: ATP1A4

Alternative Name: Atp1a4 ([ATP1A4 Products](#))

Background: Sodium/potassium-transporting ATPase subunit alpha-4 (Na⁺)/K⁺ ATPase alpha-4 subunit (EC 7.2.2.13) (Sodium pump subunit alpha-4),FUNCTION: This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and

Target Details

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. Plays a role in sperm motility (By similarity). {ECO:0000250}.

Molecular Weight: 114.9 kDa

UniProt: [Q9WV27](#)

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