

Datasheet for ABIN7552512
ATP2B4 Protein (AA 1-1241) (His tag)



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Overview

Quantity:	1 mg
Target:	ATP2B4
Protein Characteristics:	AA 1-1241
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP2B4 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ATP2B4 Protein expressed in mammalian cells.
Sequence:	MTNPSDRVLP ANSMAESREG DFGCTVMELR KLMELRSRDA LTQINVHYGG VQNLCSRLKT SPVEGLSGNP ADLEKRRQVF GHNVIPPKK KTFLELVWEA LQDVTLIILE IAAIISLVLS FYRPAGEENE LCGQVATTPE DENEAQAGWI EGAAILFSVI IVLVTAFFND WSKEKQFRGL QCRIEQEQKF SIIRNGQLIQ LPVAEIVVDG IAQVKYGDLL PADGILIQGN DLKIDESSLT GESDHVKKSL DKDPMLLSGT HVMEGSGRMV VTAVGVNSQT GIILTLLGVN EDDEGEKTKK GKKQGVPENR NKAQTQDGVA LEIQPLNSQE GIDNEEKDKK AVKVPKKEKS VLQGLTRLA VQIGKAGLLM SALTVFILIL YFVIDNFVIN RRPWLPECTP IYIQYFVKFF IIGITVLVVA VPEGLPLAVT ISLAYSVKKM MKDNNLVRHL DACETMGNAT AICSDKTGTL TMNRMTVVQA YIGGIHYRQI PSPDVFLPKV LDLIVNGISI NSAYTSKILP PEKEGGLPRQ VGNKTECALL GFVTDLKQDY QAVRNEVPEE KLYKVYTFNS VRKSMSTVIR NPNGGFRMYS KGASEILRK CNRILDRKGE AVPFKNKDRD DMVRTVIEPM ACDGLRTICI AYRDFDDTEP SWDNENEILT ELTCIAVVG EDPVRPEVPD AIAKCKQAGI TVRMVTDGNI NTARAIATKC GILTPGDDFL CLEGKEFNRL

Product Details

IRNEKGEVEQ EKLDKIWPKL RVLARSSPTD KHTLVKGIID STVGEHRQVV AVTGDGTNDG
PALKKADVGF AMGIAGTDVA KEASDIILTD DNFTSIVKAV MWGRNVYDSI SKFLQFQLTV
NVVAVIVAFT GACITQDSPL KAVQMLWVNL IMDTFASLAL ATEPPTESLL KRRPYGRNKP
LISRTMMKNI LGHAFYQLIV IFILVFAGEK FFDIDSGRKA PLHSPPSQHY TIVFNTFVLM
QLFNEINSRK IHGEKNVFSG IYRNIIFCSV VLGTFCQIF IVEFGGKPFCS CTSLSLSQWL WCLFIGIGEL
LWQQFISAIP TRSLKFLKEA GHGTTKEEIT KDAEGLDEID HAEMELRRGQ ILWFRGLNRI
QTQIDVINTF QTGASFKGVL RRQNMGQHLD VKLVPSSSYI KVVKAFHSSL HESIQKPYNQ
KSIHSFMTHP EFAIEEELPR TPLLDEEEEEE NPDKASKFGT RVLLLDGEVT PYANTNNNAV
DCNQVQLPQS DSSLQSLETS V **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: ATP2B4

Alternative Name: ATP2B4 ([ATP2B4 Products](#))

Target Details

Background: Plasma membrane calcium-transporting ATPase 4 (PMCA4) (EC 7.2.2.10) (Matrix-remodeling-associated protein 1) (Plasma membrane calcium ATPase isoform 4) (Plasma membrane calcium pump isoform 4),FUNCTION: Calcium/calmodulin-regulated and magnesium-dependent enzyme that catalyzes the hydrolysis of ATP coupled with the transport of calcium out of the cell (PubMed:8530416). By regulating sperm cell calcium homeostasis, may play a role in sperm motility (By similarity). {ECO:0000250|UniProtKB:Q6Q477, ECO:0000269|PubMed:8530416}.

Molecular Weight: 137.9 kDa

UniProt: [P23634](#)

Pathways: [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