

Datasheet for ABIN7563572
ATP8A2 Protein (AA 1-1148) (His tag)



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Overview

| | |
|-------------------------------|---|
| Quantity: | 1 mg |
| Target: | ATP8A2 |
| Protein Characteristics: | AA 1-1148 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This ATP8A2 protein is labelled with His tag. |

Product Details

| | |
|-----------|---|
| Purpose: | Custom-made recombinant Atp8a2 Protein expressed in mammalian cells. |
| Sequence: | MSRATSVGDQ LEAPARIYYL NQSHLNKFCD NRISTAKYSV LTFLPRFLYE QIRRAANAFF LFIALLQQIP DVSPTRGYTT LVPLVIILTI AGIKEIIEDF KRHKADNAV N KKKTIVLRNG MWHTIMWKEV AVGDIVKVLN GQYLPADMVL FSSSEPQGM C YVETANLDGE TNLKIRQGLS HTTDMQTRDV LMKLSGRIEC EGPNRHLYDF TGNLHLDGKS SVALGPDQIL LRGTQLRNTQ WVFGVVVYTG HDSKLMQNST KAPLKRSNVE KVTNVQILVL FGILLVMALV SSVGALFWNG SHGGKSWYIK KMDTNSDNFG YNLLTFIILY NNLIPISLLV TLEVVKYTA LFINWDMDMY YIENDTPAMA RTSNLNEELG QVKYLFSDKT GTLTCNIMNF KKCSIAGVTY GHFPELAREQ SSDDFCRMTS CTNDSCDFND PRLKNIEDQ HPTAPCIQEF LTLAVCHTV VPEKDGDEII YQASSPDEAA LVKGAKKLG VFTGRTPYSV IIEAMGQEQT FGILNVLEFS SDRKRMSVIV RLPSGQLRLY CKGADNVIFE RLSKDSK YME ETLCHLEYFA TEGLR TLCVA YADLSENEYE EWLVVYQEAS IILKDRAQRL EECYEIIEKN LLLL GATAIE DRLQAGVPET IATLLKAEIK IWLVTGDKQE TAINIGYSCR LVSQNMALIL LKEDSLDATR AAITQHCTDL GNLLGKENDV |

Product Details

ALIIDGHTLK YALSFEVRRS FLDLALSCKA VICCRVSPLQ KSEIVDVVKK RVKAITLAIG
DGANDVGMIIQ TAHVGVGISG NEGMQATNNS DYAIQFSYL EKLLLVHGAW SYNRVTKCIL
YCFYKNVVLY IIELWFAFVN GFSGQILFER WCIGLYNVIF TALPPFTLGI FERSCTQESM
LRFPLQYRIT QNAEGFNTKV FWGHCINALV HSLILFWVPM KALEHDTPVT SGHATDYLFV
GNIVTYVVV TVCLKAGLET TAWTKFSHLA VWGSMLIWLW FFGVYSTIWP TIPIAPDMKG
QATMVLSSAY FWLGLFLVPT ACLIEDVAWR AAKHTCKKTL LEEVQELETG SRVMGKAMLR
DSNGKRMNER DRLIKRLSRK TPPTLFRGTS IQQCVSHGYA FSQEEHGAVT QEEIVRAYDT
TKENSRKK **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: ATP8A2

Alternative Name: Atp8a2 ([ATP8A2 Products](#))

Background: Phospholipid-transporting ATPase IB (EC 7.6.2.1) (ATPase class I type 8A member 2) (P4-

Target Details

ATPase flippase complex alpha subunit ATP8A2),FUNCTION: Catalytic component of a P4-ATPase flippase complex which catalyzes the hydrolysis of ATP coupled to the transport of aminophospholipids from the outer to the inner leaflet of various membranes and ensures the maintenance of asymmetric distribution of phospholipids (PubMed:22912588). Able to translocate phosphatidylserine, but not phosphatidylcholine (By similarity). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. Reconstituted to liposomes, the ATP8A2:TMEM30A flippase complex predominantly transports phosphatidylserine (PS) and to a lesser extent phosphatidylethanolamine (PE) (PubMed:22912588). Phospholipid translocation is not associated with a countertransport of an inorganic ion or other charged substrate from the cytoplasmic side toward the exoplasm in connection with the phosphorylation from ATP (By similarity). ATP8A2:TMEM30A may be involved in regulation of neurite outgrowth (PubMed:22641037). Proposed to function in the generation and maintenance of phospholipid asymmetry in photoreceptor disk membranes and neuronal axon membranes. May be involved in vesicle trafficking in neuronal cells. Required for normal visual and auditory function, involved in photoreceptor and inner ear spiral ganglion cell survival (PubMed:24413176). {ECO:0000250|UniProtKB:C7EXK4, ECO:0000250|UniProtKB:Q9NTI2, ECO:0000269|PubMed:22641037, ECO:0000269|PubMed:22912588, ECO:0000269|PubMed:24413176}.

Molecular Weight: 129.4 kDa

UniProt: [P98200](#)

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

Handling

Storage Comment: Store at -80°C.

Expiry Date: 12 months