

Datasheet for ABIN7563534

**ATP8A1 Protein (AA 1-1164) (His tag)**[Go to Product page](#)

## Overview

Quantity:	1 mg
Target:	ATP8A1
Protein Characteristics:	AA 1-1164
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8A1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Atp8a1 Protein expressed in mammalian cells.
Sequence:	MPTMRRTVSE IRSRAEGYEK TDDVSEKTSL ADQEEVRTIF INQPQLTKFC NNHVSTAKYN VITFLPRFLY SQFRRAANSF FLFIALLQQI PDVSPTGRYT TLVPLLFILE VAAIKEIIED IKRHKADNAV NKKQTQVLRN GAWEIVHWEK VAVGEIVKVT NGEHLPADLL SLSSSEPQAM CYIETSNLDG ETNLKIRQGL PATSDIKDID SLMRISGRIE CESP NRHLYD FVGNIRLDGH GTVPLGADQI LLRGAQLRNT QVWHGIVVYT GHDTKLMQNS TSPPLKLSNV ERITNVQILI LFCILIAMS L VCSVGSAINW RRHSGKD WYL HLHYGGASN F GLNFLTIFIL FNNLIPISLL VTLEVVKFTQ AYFINWDLDM HYEPTDTAAM ARTSNLNEEL GQVKYIFSDK TGTLTCNVMQ FKKCTIAGVA YGHVPEPEDY GCSPDEWQSS QFGDEKTFND PSLLDNLQNN HPTAPIICEF LTMMAVCHTA VPEREGDKII YQAASPDEGA LVRAAKQLNF VFTGRTPDSV IIDSLGQEER YELLNLEFT SARKRMSVVV RTPSGKLRLY CKGADTVIYE RLAETSKYKE ITLKHLEQFA TEGRLTLCFA VAEISESDFE EWRAVYHRAS TSVQNRLKL EESYELIEKN LQLLGATAIE DKLQDQVPET IETLMKADIK IWILTGDKQE TAINIGHSCR LLKRNMG MIV INEGSLDGTR ETLSRHCTTL

## Product Details

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GDALRKENDF ALIIDGKTLK YALTFGVRQY FLDLALSCKA VICCRVSPLQ KSEVEMVKK  
QVKVITLAIG DGANDVSMIQ TAHVGVGISG NEGLQAANSS DYSIAQFKYL KNLLMVHGAW  
NYNRVSKCIL YCFYKNIVLY IIEIWFAFVN GFSGQILFER WCIGLYNVMF TAMPPLTLGI  
FERSCRKENM LKYPELYKTS QNALDFNTKV FVVHCLNGLF HSVILFWFPL KALQYGTVFG  
NGKTSDYLLL GNFBVYTFVVI TVCLKAGLET SYWTWFSHIA IWGSIALWV FFGIYSSLWP  
AVPMAPDMSG EAAMLFSSGV FWVGLLSIPV ASLLLDVLYK VIKRTAFKTL VDEVQELEAK  
SQDPGAVVLG KSLTERAQLL KNVFKKNHVN LYRSESLQQN LLHGYAFSQD ENGIVSQSEV  
IRAYDTTKQR PDEW **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

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**Target:** ATP8A1

**Alternative Name:** Atp8a1 ([ATP8A1 Products](#))

**Background:** Phospholipid-transporting ATPase IA (EC 7.6.2.1) (ATPase class I type 8A member 1)

## Target Details

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(Chromaffin granule ATPase II) (P4-ATPase flippase complex alpha subunit ATP8A1),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:20224745, PubMed:16618126). Phospholipid translocation seems also to be implicated in vesicle formation and in uptake of lipid signaling molecules. In vitro, its ATPase activity is selectively and stereospecifically stimulated by phosphatidylserine (PS) (PubMed:20224745, PubMed:16618126). The flippase complex ATP8A1:TMEM30A seems to play a role in regulation of cell migration probably involving flippase-mediated translocation of phosphatidylethanolamine (PE) at the cell membrane (PubMed:23269685). Acts as aminophospholipid translocase at the cell membrane in neuronal cells, the activity is associated with hippocampus-dependent learning (PubMed:22007859). May play a role in brain connectivity (PubMed:27287255). {ECO:0000269|PubMed:16618126, ECO:0000269|PubMed:20224745, ECO:0000269|PubMed:22007859, ECO:0000269|PubMed:23269685, ECO:0000269|PubMed:27287255}.

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Molecular Weight: 131.4 kDa

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UniProt: [P70704](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months