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Datasheet for ABIN3134668 ATP8A1 Protein (AA 361-866) (His tag)



Overview

Quantity:	1 mg
Target:	ATP8A1
Protein Characteristics:	AA 361-866
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP8A1 protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	VTLEVVKFTQ AYFINWDLDM HYEPTDTAAM ARTSNLNEEL GQVKYIFSDK TGTLTCNVMQ
	FKKCTIAGVA YGHVPEPEDY GCSPDEWQSS QFGDEKTFND PSLLDNLQNN HPTAPIICEF
	LTMMAVCHTA VPEREGDKII YQAASPDEGA LVRAAKQLNF VFTGRTPDSV IIDSLGQEER
	YELLNVLEFT SARKRMSVVV RTPSGKLRLY CKGADTVIYE RLAETSKYKE ITLKHLEQFA
	TEGLRTLCFA VAEISESDFE EWRAVYHRAS TSVQNRLLKL EESYELIEKN LQLLGATAIE
	DKLQDQVPET IETLMKADIK IWILTGDKQE TAINIGHSCR LLKRNMGMIV INEGSLDGTR
	ETLSRHCTTL GDALRKENDF ALIIDGKTLK YALTFGVRQY FLDLALSCKA VICCRVSPLQ
	KSEVVEMVKK QVKVITLAIG DGANDVSMIQ TAHVGVGISG NEGLQAANSS DYSIAQFKYL
	KNLLMVHGAW NYNRVSKCIL YCFYKN
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.

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Product Details	
Characteristics:	 Made in Germany - from design to production - by highly experienced protein experts. Mouse Atp8a1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade. 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 will ensure that you receive a correctly folded protein.
	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.
	In the unlikely event that the protein cannot be expressed or purified we do not charge anything
	(other companies might charge you for any performed steps in the expression process for
	custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression
	experiments or purification optimization).
	When you order this made-to-order protein you will only pay upon receival of the correctly
	folded protein. With no financial risk on your end you can rest assured that our experienced
	protein experts will do everything to make sure that you receive the protein you ordered.
	The concentration of our recombinant proteins is measured using the absorbance at 280nm.
	The protein's absorbance will be measured in several dilutions and is measured against its
	specific reference buffer.
	The concentration of the protein is calculated using its specific absorption coefficient. We use
	the Expasy's protparam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells:
	 In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE. Protein containing fractions of the best purification are subjected to second purification step
	through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

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Target Details	
Target:	ATP8A1
Alternative Name:	Atp8a1 (ATP8A1 Products)
Background:	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. 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). 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 plasma membrane. Acts as aminophospholipid translocase at the plasma membrane in neuronal cells, the activity is associated with hippocampus-dependent learning. {EC0:0000269 PubMed:16618126, EC0:0000269 PubMed:20224745, EC0:0000269 PubMed:22007859,
	EC0:0000269 PubMed:23269685}.
Molecular Weight:	57.8 kDa Including tag.
UniProt: Application Details	P70704
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.

Handling Advice:Avoid repeated freeze-thaw cycles.Storage:-80 °C

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Storage Comment:	Store at -80°C.

Expiry Date:

Unlimited (if stored properly)

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