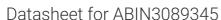
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ATP1B4 Protein (AA 132-357) (His tag)



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Quantity:	1 mg
Target:	ATP1B4
Protein Characteristics:	AA 132-357
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP1B4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)
Product Details	
Sequence:	YTLFLTISPY IPTFTERVKP PGVMIRPFAH SLNFNFNVSE PDTWQHYVIS LNGFLQGYND
	SLQEEMNVDC PPGQYFIQDG NEDEDKKACQ FKRSFLKNCS GLEDPTFGYS TGQPCILLKM
	NRIVGFRPEL GDPVKVSCKV QRGDENDIRS ISYYPESASF DLRYYPYYGK LTHVNYTSPL
	VAMHFTDVVK NQAVPVQCQL KGKGVINDVI NDRFVGRVIF TLNIET
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Human ATP1B4 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 (Consequenthesis)
	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.
- 2. 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

Target Details

Target:	ATP1B4
Alternative Name:	ATP1B4 (ATP1B4 Products)
Background:	May act as a transcriptional coregulator during muscle development through its interaction with SNW1. Has lost its ancestral function as a Na,K-ATPase beta-subunit.
	{ECO:0000269 PubMed:17592128}.

Target Details

Molecular Weight:	26.8 kDa Including tag.
UniProt:	Q9UN42
Pathways:	Thyroid Hormone Synthesis, Proton Transport

Application Details

Restrictions:	For Research Use only
	receive your protein of interest.
	increase solubility. We will discuss all possible options with you in detail to assure that you
	insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to
Comment:	In cases in which it is highly likely that the recombinant protein with the default tag will be
	guarantee though.
	as well. As the protein has not been tested for functional studies yet we cannot offer a
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

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
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)