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## Datasheet for ABIN3127007 ATP1A1 Protein (AA 151-291) (His tag)



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Overview	

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Quantity:	1 mg
Target:	ATP1A1
Protein Characteristics:	AA 151-291
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP1A1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA
Product Details	
Sequence:	EAKSSKIMES FKNMVPQQAL VIRNGEKMSI NAEDVVVGDL VEVKGGDRIP ADLRIISANG
	CKVDNSSLTG ESEPQTRSPD FTNENPLETR NIAFFSTNCV EGTARGIVVY TGDRTVMGRI
	ATLASGLEGG QTPIAEEIEH F
	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.
	Mouse Atp1a1 Protein (raised in E. Coli) 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.
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	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 bacterial culture:
	1. 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:	Endotoxin has not been removed. Please contact us if you require endotoxin removal.
Grade:	Crystallography grade
Target Details	
Target:	ATP1A1
Alternative Name:	Atp1a1 (ATP1A1 Products)
Background:	This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP
<u> </u>	coupled with the exchange of sodium and potassium ions across the plasma membrane. This
	action creates the electrochemical gradient of sodium and potassium ions, providing the

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Target Details	
Molecular Weight:	16.1 kDa Including tag.
UniProt:	Q8VDN2
Pathways:	Thyroid Hormone Synthesis, Regulation of Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, Proton Transport, Ribonucleoside Biosynthetic Process

## Application Details

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