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ATP6V0A4 Protein (AA 1-840) (Strep Tag)



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Overview

Quantity:	1 mg	
Target:	ATP6V0A4	
Protein Characteristics:	AA 1-840	
Origin:	Human	
Source:	Tobacco (Nicotiana tabacum)	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This ATP6V0A4 protein is labelled with Strep Tag.	
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)	

Product Details

Sequence:

MVSVFRSEEM CLSQLFLQVE AAYCCVAELG ELGLVQFKDL NMNVNSFQRK FVNEVRRCES
LERILRFLED EMQNEIVVQL LEKSPLTPLP REMITLETVL EKLEGELQEA NQNQQALKQS
FLELTELKYL LKKTQDFFET ETNLADDFFT EDTSGLLELK AVPAYMTGKL GFIAGVINRE
RMASFERLLW RICRGNVYLK FSEMDAPLED PVTKEEIQKN IFIIFYQGEQ LRQKIKKICD
GFRATVYPCP EPAVERREML ESVNVRLEDL ITVITQTESH RQRLLQEAAA NWHSWLIKVQ
KMKAVYHILN MCNIDVTQQC VIAEIWFPVA DATRIKRALE QGMELSGSSM APIMTTVQSK
TAPPTFNRTN KFTAGFQNIV DAYGVGSYRE INPAPYTIIT FPFLFAVMFG DCGHGTVMLL
AALWMILNER RLLSQKTDNE IWNTFFHGRY LILLMGIFSI YTGLIYNDCF SKSLNIFGSS
WSVQPMFRNG TWNTHVMEES LYLQLDPAIP GVYFGNPYPF GIDPIWNLAS NKLTFLNSYK
MKMSVILGIV QMVFGVILSL FNHIYFRRTL NIILQFIPEM IFILCLFGYL VFMIIFKWCC
FDVHVSQHAP SILIHFINMF LFNYSDSSNA PLYKHQQEVQ SFFVVMALIS VPWMLLIKPF
ILRASHRKSQ LQASRIQEDA TENIEGDSSS PSSRSGQRTS ADTHGALDDH GEEFNFGDVF

VHQAIHTIEY CLGCISNTAS YLRLWALSLA HAQLSEVLWT MVMNSGLQTR GWGGIVGVFI IFAVFAVLTV AILLIMEGLS AFLHALRLHW VEFQNKFYVG DGYKFSPFSF KHILDGTAEE

Sequence without tag. The proposed Strep-Tag is based on experience s 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.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- · 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):		
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag		
	capture material. 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:	0 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.		
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)		
Target Details			
Target:	ATP6V0A4		
Alternative Name:	ATP6V0A4 (ATP6V0A4 Products)		
Background:	V-type proton ATPase 116 kDa subunit a 4 (V-ATPase 116 kDa isoform a 4) (Vacuolar proton		
	translocating ATPase 116 kDa subunit a isoform 4) (Vacuolar proton translocating ATPase 116		
	kDa subunit a kidney isoform),FUNCTION: Subunit of the V0 complex of vacuolar(H+)-ATPase		
	(V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes		
	ATP and a membrane integral complex (V0) that translocates protons (By similarity). V-ATPase		
	is responsible for acidifying and maintaining the pH of intracellular compartments and in some		
	cell types, is targeted to the plasma membrane, where it is responsible for acidifying the		
	extracellular environment (By similarity). Involved in normal vectorial acid transport into the		
	urine by the kidney (PubMed:10973252, PubMed:12414817). {ECO:0000250 UniProtKB:Q29466		
	ECO:0000250 UniProtKB:Q93050, ECO:0000269 PubMed:10973252,		
	ECO:0000269 PubMed:12414817}.		
Molecular Weight:	96.4 kDa		
UniProt:	Q9HBG4		
Pathways:	Sensory Perception of Sound, Transition Metal Ion Homeostasis, Proton Transport		
Application Details			
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies		

Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)