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ATP6V0D1 Protein (AA 1-351) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	ATP6V0D1
Protein Characteristics:	AA 1-351
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V0D1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:

MSFFPELYFN VDNGYLEGLV RGLKAGVLSQ ADYLNLVQCE TLEDLKLHLQ STDYGNFLAN EASPLTVSVI DDRLKEKMVV EFRHMRNHAY EPLASFLDFI TYSYMIDNVI LLITGTLHQR SIAELVPKCH PLGSFEQMEA VNIAQTPAEL YNAILVDTPL AAFFQDCISE QDLDEMNIEI IRNTLYKAYL ESFYKFCTLL GGTTADAMCP ILEFEADRRA FIITINSFGT ELSKEDRAKL FPHCGRLYPE GLAQLARADD YEQVKNVADY YPEYKLLFEG AGSNPGDKTL EDRFFEHEVK LNKLAFLNOF HFGVFYAFVK LKEQECRNIV WIAECIAQRH RAKIDNYIPI F

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.

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:

>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Target Details	
Target:	ATP6V0D1
Alternative Name:	ATP6V0D1 (ATP6V0D1 Products)
Background:	V-type proton ATPase subunit d 1 (V-ATPase subunit d 1) (32 kDa accessory protein) (V-
	ATPase 40 kDa accessory protein) (V-ATPase AC39 subunit) (p39) (Vacuolar proton pump
	subunit d 1),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 (PubMed:33065002,
	PubMed:28296633, PubMed:30374053). 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
	(PubMed:30374053). May play a role in coupling of proton transport and ATP hydrolysis (By
	similarity). In aerobic conditions, involved in intracellular iron homeostasis, thus triggering the
	activity of Fe(2+) prolyl hydroxylase (PHD) enzymes, and leading to HIF1A hydroxylation and
	subsequent proteasomal degradation (PubMed:28296633). May play a role in cilium biogenesis
	through regulation of the transport and the localization of proteins to the cilium (By similarity).
	{ECO:0000250 UniProtKB:P51863, ECO:0000250 UniProtKB:Q6PGV1,
	ECO:0000269 PubMed:28296633, ECO:0000269 PubMed:30374053,
	ECO:0000269 PubMed:33065002}.
Molecular Weight:	40.3 kDa
UniProt:	P61421
Pathways:	Transition Metal Ion Homeostasis, Proton Transport, ER-Nucleus Signaling, Unfolded Protein
	Response
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
	guarantee though.

	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 post-translational
Ol	

ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Comment:

Application Details

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!

Restrictions:

For Research Use only

Handling

Format:	Liquid
D. ((
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)