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Datasheet for ABIN3075341 ATP6V1D Protein (AA 1-247) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	ATP6V1D
Protein Characteristics:	AA 1-247
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ATP6V1D protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MSGKDRIEIF PSRMAQTIMK ARLKGAQTGR NLLKKKSDAL TLRFRQILKK IIETKMLMGE
	VMREAAFSLA EAKFTAGDFS TTVIQNVNKA QVKIRAKKDN VAGVTLPVFE HYHEGTDSYE
	LTGLARGGEQ LAKLKRNYAK AVELLVELAS LQTSFVTLDE AIKITNRRVN AIEHVIIPRI ERTLAYIITE
	LDEREREEFY RLKKIQEKKK ILKEKSEKDL EQRRAAGEVL EPANLLAEEK DEDLLFE
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expressior
	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

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• 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 post-translational 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.
	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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	ATP6V1D
Alternative Name:	ATP6V1D (ATP6V1D Products)
Background:	V-type proton ATPase subunit D (V-ATPase subunit D) (V-ATPase 28 kDa accessory protein)
	(Vacuolar proton pump subunit D),FUNCTION: Subunit of the V1 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). 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). May play a role in
	cilium biogenesis through regulation of the transport and the localization of proteins to the
	cilium (PubMed:21844891). {ECO:0000250 UniProtKB:P39942,
	ECO:0000269 PubMed:21844891, ECO:0000269 PubMed:33065002}.
Molecular Weight:	28.3 kDa
UniProt:	Q9Y5K8
Pathways:	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
	as well. As the protein has not been tested for functional studies yet we cannot offer a
	guarantee though.
Comment:	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 post-translational
	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

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Application Details

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)

Images

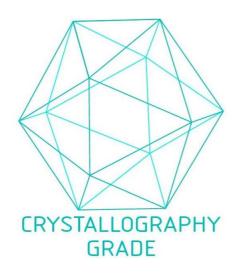


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process