

Datasheet for ABIN3099933

STARD3 Protein (AA 1-445) (Strep Tag)



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Quantity:	250 μg
Target:	STARD3
Protein Characteristics:	AA 1-445
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This STARD3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details		
Brand:	AliCE®	
Sequence:	MSKLPRELTR DLERSLPAVA SLGSSLSHSQ SLSSHLLPPP EKRRAISDVR RTFCLFVTFD	
	LLFISLLWII ELNTNTGIRK NLEQEIIQYN FKTSFFDIFV LAFFRFSGLL LGYAVLRLRH	
	WWVIAVTTLV SSAFLIVKVI LSELLSKGAF GYLLPIVSFV LAWLETWFLD FKVLPQEAEE	
	ERWYLAAQVA VARGPLLFSG ALSEGQFYSP PESFAGSDNE SDEEVAGKKS FSAQEREYIR	
	QGKEATAVVD QILAQEENWK FEKNNEYGDT VYTIEVPFHG KTFILKTFLP CPAELVYQEV	
	ILQPERMVLW NKTVTACQIL QRVEDNTLIS YDVSAGAAGG VVSPRDFVNV RRIERRRDRY	
	LSSGIATSHS AKPPTHKYVR GENGPGGFIV LKSASNPRVC TFVWILNTDL KGRLPRYLIH	
	QSLAATMFEF AFHLRQRISE LGARA	
	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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- · We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	STARD3
Alternative Name:	STARD3 (STARD3 Products)
Background:	StAR-related lipid transfer protein 3 (Metastatic lymph node gene 64 protein) (MLN 64) (Protein
	CAB1) (START domain-containing protein 3) (StARD3),FUNCTION: Sterol-binding protein that
	mediates cholesterol transport from the endoplasmic reticulum to endosomes
	(PubMed:11053434, PubMed:15930133, PubMed:22514632, PubMed:28377464,
	PubMed:33124732). The sterol transport mechanism is triggered by phosphorylation of FFAT
	motif that leads to membrane tethering between the endoplasmic reticulum and late
	endosomes via interaction with VAPA and VAPB (PubMed:24105263, PubMed:28377464,
	PubMed:33124732). Acts as a lipid transfer protein that redirects sterol to the endosome at the
	expense of the cell membrane and favors membrane formation inside endosomes
	(PubMed:28377464). May also mediate cholesterol transport between other membranes, such
	as mitochondria membrane or cell membrane (PubMed:12070139, PubMed:19965586).
	However, such results need additional experimental evidences, probably mainly mediates
	cholesterol transport from the endoplasmic reticulum to endosomes (PubMed:28377464).
	Does not activate transcriptional cholesterol sensing (PubMed:28377464). Able to bind other
	lipids, such as lutein, a xanthophyll carotenoids that form the macular pigment of the retina
	(PubMed:21322544). {ECO:0000269 PubMed:11053434, ECO:0000269 PubMed:12070139,
	ECO:0000269 PubMed:15930133, ECO:0000269 PubMed:19965586,
	ECO:0000269 PubMed:21322544, ECO:0000269 PubMed:22514632,
	ECO:0000269 PubMed:24105263, ECO:0000269 PubMed:28377464,
	ECO:0000269 PubMed:33124732}.
Molecular Weight:	50.5 kDa
UniProt:	Q14849
Pathways:	C21-Steroid Hormone Metabolic 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
	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

Application Details

modifications.

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months