

Datasheet for ABIN3114499 SREBF chaperone Protein (SCAP) (AA 1-1279) (Strep Tag)



Overview

Quantity:	250 µg
Target:	SREBF chaperone (SCAP)
Protein Characteristics:	AA 1-1279
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SREBF chaperone protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MTLTERLREK ISRAFYNHGL LCASYPIPII LFTGFCILAC CYPLLKLPLP GTGPVEFTTP
	VKDYSPPPVD SDRKQGEPTE QPEWYVGAPV AYVQQIFVKS SVFPWHKNLL AVDVFRSPLS
	RAFQLVEEIR NHVLRDSSGI RSLEELCLQV TDLLPGLRKL RNLLPEHGCL LLSPGNFWQN
	DWERFHADPD IIGTIHQHEP KTLQTSATLK DLLFGVPGKY SGVSLYTRKR MVSYTITLVF
	QHYHAKFLGS LRARLMLLHP SPNCSLRAES LVHVHFKEEI GVAELIPLVT TYIILFAYIY
	FSTRKIDMVK SKWGLALAAV VTVLSSLLMS VGLCTLFGLT PTLNGGEIFP YLVVVIGLEN
	VLVLTKSVVS TPVDLEVKLR IAQGLSSESW SIMKNMATEL GIILIGYFTL VPAIQEFCLF
	AVVGLVSDFF LQMLFFTTVL SIDIRRMELA DLNKRLPPEA CLPSAKPVGQ PTRYERQLAV
	RPSTPHTITL QPSSFRNLRL PKRLRVVYFL ARTRLAQRLI MAGTVVWIGI LVYTDPAGLR
	NYLAAQVTEQ SPLGEGALAP MPVPSGMLPP SHPDPAFSIF PPDAPKLPEN QTSPGESPER
	GGPAEVVHDS PVPEVTWGPE DEELWRKLSF RHWPTLFSYY NITLAKRYIS LLPVIPVTLR

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3114499 | 02/25/2025 | Copyright antibodies-online. All rights reserved. LNPREALEGR HPQDGRSAWP PPGPIPAGHW EAGPKGPGGV QAHGDVTLYK VAALGLATGI VLVLLLLCLY RVLCPRNYGQ LGGGPGRRRR GELPCDDYGY APPETEIVPL VLRGHLMDIE CLASDGMLLV SCCLAGHVCV WDAQTGDCLT RIPRPGRQRR DSGVGSGLEA QESWERLSDG GKAGPEEPGD SPPLRHRPRG PPPPSLFGDQ PDLTCLIDTN FSAQPRSSQP TQPEPRHRAV CGRSRDSPGY DFSCLVQRVY QEEGLAAVCT PALRPPSPGP VLSQAPEDEG GSPEKGSPSL AWAPSAEGSI WSLELQGNLI VVGRSSGRLE VWDAIEGVLC CSSEEVSSGI TALVFLDKRI VAARLNGSLD FFSLETHTAL SPLQFRGTPG RGSSPASPVY SSSDTVACHL THTVPCAHQK PITALKAAAG RLVTGSQDHT LRVFRLEDSC CLFTLQGHSG AITTVYIDQT MVLASGGQDG AICLWDVLTG SRVSHVFAHR GDVTSLTCTT SCVISSGLDD LISIWDRSTG IKFYSIQQDL GCGASLGVIS DNLLVTGGQG CVSFWDLNYG DLLQTVYLGK NSEAQPARQI LVLDNAAIVC NFGSELSLVY VPSVLEKLD

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 -

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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:	SREBF chaperone (SCAP)
Alternative Name:	SCAP (SCAP Products)
Background:	Sterol regulatory element-binding protein cleavage-activating protein (SCAP) (SREBP cleavage-
	activating protein),FUNCTION: Escort protein required for cholesterol as well as lipid
	homeostasis (By similarity). Regulates export of the SCAP-SREBP complex from the
	endoplasmic reticulum to the Golgi upon low cholesterol, thereby regulating the processing of
	sterol regulatory element-binding proteins (SREBPs) SREBF1/SREBP1 and SREBF2/SREBP2 (By
	similarity). At high sterol concentrations, formation of a ternary complex with INSIG (INSIG1 or
	INSIG2) leads to mask the ER export signal in SCAP, promoting retention of the complex in the
	endoplasmic reticulum (By similarity). Low sterol concentrations trigger release of INSIG, a
	conformational change in the SSD domain of SCAP, unmasking of the ER export signal,
	promoting recruitment into COPII-coated vesicles and transport of the SCAP-SREBP to the
	Golgi: in the Golgi, SREBPs are then processed, releasing the transcription factor fragment of
	SREBPs from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and
	the mevalonate pathway (By similarity). Binds cholesterol via its SSD domain (By similarity).
	{ECO:0000250 UniProtKB:P97260}.
Molecular Weight:	139.7 kDa
UniProt:	Q12770
Pathways:	SARS-CoV-2 Protein Interactome

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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 needed is the DNA that codes for the desired protein!
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