Datasheet for ABIN7564045

SREBF chaperone Protein (SCAP) (AA 1-1276) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	SREBF chaperone (SCAP)
Protein Characteristics:	AA 1-1276
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SREBF chaperone protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Scap Protein expressed in mammalian cells.
Sequence:	MTLTERLREK ISQAFYNHGL LCASYPIPII LFTGLCILAC CYPLLKLPLP GTGPVEFSTP VKGYSPPPAD SDHKQGEPSE QPEWYVGAPV AYIQQIFVKS SVSPWHRNLL AVDVFRSPLS RAFQLVEEIR NHVLRDSSGT KSLEEVCLQV TDLLPGLRKL RSLLPEHGCL LLSPGNFWQN DWERFHADPD IIGTIHQHEP KTLQTSATLK DLLFGVPGKY SGVSLYTRKR MVSYTITLVF QRYHAKFLSS LRARLMLLHP SPNCSLRAEN LVHVHFKEEI GIAELIPLVT TYIILFAYIY FSTRKIDMVK SKWGLALAAV VTVLSSLLMS VGLCTLFGLT PTLNGGEIFP YLVVVIGLEN VLVLTKSVVS TPVDLEVKLR IAQGLSSESW SIMKNAATEL GIILIGYFTL VPAIQEFCLF AVVGLVSDFF LQMLFFTTVL SIDIRRMELA DLNKRLPPES CLPSAKPVGR PARYERQQAV RPSTPHTITL QPSSFRNLRL PKRLRVIYFL ARTRLAQRLI MAGTVVWIGI LVYTDPAGLR TYLAAQVTEQ SPLGEGSLGP MPVPSGVLPA SHPDPAFSIF PPDAPKLPEN QTLPGELPEH AGPAEGVHDS RAPEVTWGPE DEELWRKLSF RHWPTLFNYY NITLAKRYIS LLPVIPVTLH LNPREALEGR HPQDGRSAWA PQEPLPAGLW ESGPKGPGGT QTHGDITLYK VAALGLAAGI

Product Details

	VLVLLLLCLY RVLCPRNYGQ PGGGPGRRRR GELPCDDYGY APPETEIVPL VLRGHLMDIE CLASDGMLLV SCCLAGQVCV WDAQTGDCLT RIPRPGPRRD SCGGGAFETQ ENWERLSDGG KASPEEPGDS PPLRRRPRGP PPPSLFGDQP DLTCLIDTNF SVQLPPEPTQ PEPRHRVGCG RSRDSGYDFS RLVQRVYQEE GLAAMRMPAL RPPSPGPPLP QASQEEGTAP EKGSPPLAWT PSTAGSIWSL ELQGNLIVVG RSSGRLEVWD AIEGVLCCSN EEISSGITAL VFLDRRIVAA RLNGSLDFFS LETHTSLSPL QFRGTPGRGS SPSSSVYSSS NTVTCHRTHT VPCAHQKPIT ALRAAAGRLV TGSQDHTLRV FRLDDSCCLF TLKGHSGAIT AVYIDQTMVL ASGGQDGAIC LWDVLTGSRV SQTFAHRGDV TSLTCTASCV ISSGLDDFIS IWDRSTGIKL YSIQQDLGCG ASLGVISDNL LVTGGQGCVS FWDLNYGDLL QTVYLGKNSE AQPARQILVL DNAAIVCNFG SELSLVYVPS VLEKLD **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	SREBF chaperone (SCAP)

Target Details

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 (PubMed:11358865, PubMed:9854040). 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 (PubMed:11358865, PubMed:9854040, PubMed:29068315). 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, ECO:0000269|PubMed:11358865, ECO:0000269|PubMed:29068315, ECO:0000269|PubMed:9854040}.
Molecular Weight:	139.6 kDa
UniProt:	Q6GQT6
Pathways:	SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

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Handling

Expiry Date:	12 months

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