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SREBF chaperone Protein (SCAP) (AA 540-707) (His tag)



Image



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Quantity:	

Overview

Target:

SREBF chaperone (SCAP)

1 mg

Protein Characteristics: AA 540-707

Origin: Mouse

Source: Insect Cells

Protein Type: Recombinant

Purification tag / Conjugate: This SREBF chaperone protein is labelled with His tag.

Application: Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:

RTYLAAQVTE QSPLGEGSLG PMPVPSGVLP ASHPDPAFSI FPPDAPKLPE NQTLPGELPE HAGPAEGVHD SRAPEVTWGP EDEELWRKLS FRHWPTLFNY YNITLAKRYI SLLPVIPVTL

HLNPREALEG RHPQDGRSAW APQEPLPAGL WESGPKGPGG TQTHGDIT

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Scap Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

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.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

- 1. In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. 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:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Protein is endotoxin free.

Grade:

Crystallography grade

Target Details

Target:	SREBF chaperone (SCAP)
Alternative Name:	Scap (SCAP Products)
Background:	Escort protein required for cholesterol as well as lipid homeostasis. Regulates export of the
	SCAP/SREBF complex from the ER upon low cholesterol. Formation of a ternary complex with
	INSIG at high sterol concentrations leads to masking of an ER-export signal in SCAP and
	retention of the complex in the ER. Low sterol concentrations trigger release of INSIG, a

- Target Details	
	conformational change in the SSC domain of SCAP, unmasking of the ER export signal,
	recruitment into COPII-coated vesicles, transport to the Golgi complex, proteolytic cleavage of
	SREBF in the Golgi, release of the transcription factor fragment of SREBF from the membrane,
	its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway.
	{ECO:0000250 UniProtKB:P97260, ECO:0000269 PubMed:11358865,
	ECO:0000269 PubMed:9854040}.
Molecular Weight:	19.3 kDa Including tag.
UniProt:	Q6GQT6
Pathways:	SARS-CoV-2 Protein Interactome
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 gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



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