Datasheet for ABIN7549807

SCP2 Protein (AA 1-547) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	SCP2
Protein Characteristics:	AA 1-547
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SCP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant SCP2 Protein expressed in mammalian cells.
Sequence:	MSSSPWEPAT LRRVFVVGVG MTKFVKPGAE NSRDYPDLAE EAGKKALADA QIPYSAVDQA CVGYVFGDST CGQRAIYHSL GMTGIPIINV NNNCATGSTA LFMARQLIQG GVAECVLALG FEKMSKGSLG IKFSDRTIPT DKHVDLLINK YGLSAHPVAP QMFGYAGKEH MEKYGTKIEH FAKIGWKNHK HSVNNPYSQF QDEYSLDEVM ASKEVFDFLT ILQCCPTSDG AAAAILASEA FVQKYGLQSK AVEILAQEMM TDLPSSFEEK SIIKMVGFDM SKEAARKCYE KSGLTPNDID VIELHDCFST NELLTYEALG LCPEGQGATL VDRGDNTYGG KWVINPSGGL ISKGHPLGAT GLAQCAELCW QLRGEAGKRQ VPGAKVALQH NLGIGGAVVV TLYKMGFPEA ASSFRTHQIE AVPTSSASDG FKANLVFKEI EKKLEEEGEQ FVKKIGGIFA FKVKDGPGGK EATWVVDVKN GKGSVLPNSD KKADCTITMA DSDFLALMTG KMNPQSAFFQ GKLKITGNMG LAMKLQNLQL QPGNAKL **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.**

Product Details

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:	SCP2
Alternative Name:	SCP2 (SCP2 Products)
Background:	Sterol carrier protein 2 (SCP-2) (Acetyl-CoA C-myristoyltransferase) (EC 2.3.1.155) (Non-specific lipid-transfer protein) (NSL-TP) (Propanoyl-CoA C-acyltransferase) (EC 2.3.1.176) (SCP-2/3-oxoacyl-CoA thiolase) (SCP-2/thiolase) (EC 2.3.1.16) (SCP-chi) (SCPX) (Sterol carrier protein X) (SCP-X),FUNCTION: [Isoform SCPx]: Plays a crucial role in the peroxisomal oxidation of branched-chain fatty acids (PubMed:10706581). Catalyzes the last step of the peroxisomal beta-oxidation of branched chain fatty acids and the side chain of the bile acid intermediates di- and trihydroxycoprostanic acids (DHCA and THCA) (PubMed:10706581). Also active with medium and long straight chain 3-oxoacyl-CoAs. Stimulates the microsomal conversion of 7-dehydrocholesterol to cholesterol and transfers phosphatidylcholine and 7-dehydrocholesterol between membrances, in vitro (By similarity). Isoforms SCP2 and SCPx cooperate in peroxisomal oxidation of certain naturally occurring tetramethyl-branched fatty acyl-CoAs (By

Target Details

	similarity). {ECO:0000250|UniProtKB:P11915, ECO:0000250|UniProtKB:P32020, ECO:0000269|PubMed:10706581}., FUNCTION: [Isoform SCP2]: Mediates the transfer of all common phospholipids, cholesterol and gangliosides from the endoplasmic reticulum to the plasma membrane. May play a role in regulating steroidogenesis (PubMed:17157249, PubMed:8300590, PubMed:7642518). Stimulates the microsomal conversion of 7-dehydrocholesterol to cholesterol (By similarity). Also binds fatty acids and fatty acyl Coenzyme A (CoA) such as phytanoyl-CoA. Involved in the regulation phospholipid synthesis in endoplasmic reticulum enhancing the incorporation of exogenous fatty acid into glycerides. Seems to stimulate the rate-limiting step in phosphatidic acid formation mediated by GPAT3. Isoforms SCP2 and SCPx cooperate in peroxisomal oxidation of certain naturally occurring tetramethyl-branched fatty acyl-CoAs (By similarity). {ECO:0000250|UniProtKB:P11915, ECO:0000250|UniProtKB:P32020, ECO:0000269|PubMed:17157249, ECO:0000269|PubMed:7642518, ECO:0000269|PubMed:8300590}.
Molecular Weight:	59.0 kDa
UniProt:	P22307
Pathways:	C21-Steroid Hormone Metabolic Process, Monocarboxylic Acid Catabolic Process

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.
Expiry Date:	12 months