Datasheet for ABIN7562859

SCD Protein (AA 1-355) (His tag)

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Overview

Quantity:	1 mg
Target:	SCD
Protein Characteristics:	AA 1-355
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SCD protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Scd1 Protein expressed in mammalian cells.
Sequence:	MPAHMLQEIS SSYTTTTTIT APPSGNEREK VKTVPLHLEE DIRPEMKEDI HDPTYQDEEG PPPKLEYVWR NIILMVLLHL GGLYGIILVP SCKLYTCLFG IFYYMTSALG ITAGAHRLWS HRTYKARLPL RIFLIIANTM AFQNDVYEWA RDHRAHHKFS ETHADPHNSR RGFFFSHVGW LLVRKHPAVK EKGGKLDMSD LKAEKLVMFQ RRYYKPGLLL MCFILPTLVP WYCWGETFVN SLFVSTFLRY TLVLNATWLV NSAAHLYGYR PYDKNIQSRE NILVSLGAVG EGFHNYHHTF PFDYSASEYR WHINFTTFFI DCMAALGLAY DRKKVSKATV LARIKRTGDG SHKSS **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:

Product Details

- 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:	SCD
Alternative Name:	Scd1 (SCD Products)
Background:	Acyl-CoA desaturase 1 (EC 1.14.19.1) (Delta(9)-desaturase 1) (Delta-9 desaturase 1) (Fatty acid desaturase 1) (Stearoyl-CoA desaturase 1),FUNCTION: Stearoyl-CoA desaturase that utilizes O(2) and electrons from reduced cytochrome b5 to introduce the first double bond into saturated fatty acyl-CoA substrates. Catalyzes the insertion of a cis double bond at the Delta-9 position into fatty acyl-CoA substrates including palmitoyl-CoA and stearoyl-CoA (PubMed:11500518, PubMed:11533264, PubMed:16275639, PubMed:16443825, PubMed:26098370). Gives rise to a mixture of 16:1 and 18:1 unsaturated fatty acids (PubMed:11500518, PubMed:11533264, PubMed:16443825, PubMed:26098370). Plays an important role in lipid biosynthesis (PubMed:17127673, PubMed:10899171, PubMed:11500518, PubMed:11441127, PubMed:11533264, PubMed:12177411, PubMed:26098370). Plays an important role in regulating the expression of genes that are involved in lipogenesis and in regulating mitochondrial fatty acid oxidation (PubMed:12177411, PubMed:17127673, PubMed:24356954, PubMed:24295027). Plays an important role in body energy homeostasis (PubMed:17127673, PubMed:15210843, PubMed:24295027, PubMed:24356954). Contributes

Target Details

	to the biosynthesis of membrane phospholipids, cholesterol esters and triglycerides (PubMed:10899171, PubMed:11500518, PubMed:11441127, PubMed:11533264, PubMed:12177411, PubMed:15210843, PubMed:26098370). Required for normal development of sebaceous glands (PubMed:17738154, PubMed:11533264). Required for the biosynthesis of normal levels of Delta-9 unsaturated fatty acids and 1-alkyl-2,3-diacylglycerol in the Harderian gland (PubMed:11500518). Required for normal production of meibum, an oily material that prevents drying of the cornea (PubMed:11533264). {ECO:0000269|PubMed:10899171, ECO:0000269|PubMed:11441127, ECO:0000269|PubMed:11500518, ECO:0000269|PubMed:11533264, ECO:0000269|PubMed:12177411, ECO:0000269|PubMed:15210843, ECO:0000269|PubMed:16275639, ECO:0000269|PubMed:16443825, ECO:0000269|PubMed:17127673, ECO:0000269|PubMed:26098370, ECO:0000305|PubMed:24295027, ECO:0000305|PubMed:24356954}.
Molecular Weight:	41.0 kDa
UniProt:	P13516
Pathways:	Brown Fat Cell Differentiation

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