

Datasheet for ABIN7555644 **SPTLC1 Protein (AA 1-473) (His tag)**



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Quantity:	1 mg
Target:	SPTLC1
Protein Characteristics:	AA 1-473
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPTLC1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details	
Purpose:	Custom-made recombinat SPTLC1 Protein expressed in mammalien cells.
Sequence:	MATATEQWVL VEMVQALYEA PAYHLILEGI LILWIIRLLF SKTYKLQERS DLTVKEKEEL
	IEEWQPEPLV PPVPKDHPAL NYNIVSGPPS HKTVVNGKEC INFASFNFLG LLDNPRVKAA
	ALASLKKYGV GTCGPRGFYG TFDVHLDLED RLAKFMKTEE AIIYSYGFAT IASAIPAYSK
	RGDIVFVDRA ACFAIQKGLQ ASRSDIKLFK HNDMADLERL LKEQEIEDQK NPRKARVTRR
	FIVVEGLYMN TGTICPLPEL VKLKYKYKAR IFLEESLSFG VLGEHGRGVT EHYGINIDDI
	DLISANMENA LASIGGFCCG RSFVIDHQRL SGQGYCFSAS LPPLLAAAAI EALNIMEENP
	GIFAVLKEKC GQIHKALQGI SGLKVVGESL SPAFHLQLEE STGSREQDVR LLQEIVDQCM
	NRSIALTQAR YLEKEEKCLP PPSIRVVVTV EQTEEELERA ASTIKEVAQA VLL 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

Characteristics:

Key Benefits:

- Made to order protein from design to production by highly experienced protein experts.
- · Protein expressed in mammalien 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, Western Blot

Grade:

custom-made

Target Details

Target:

SPTLC1

Alternative Name:

SPTLC1 (SPTLC1 Products)

Background:

Serine palmitoyltransferase 1 (EC 2.3.1.50) (Long chain base biosynthesis protein 1) (LCB 1) (Serine-palmitoyl-CoA transferase 1) (SPT 1) (SPT1),FUNCTION: Component of the serine palmitoyltransferase multisubunit enzyme (SPT) that catalyzes the initial and rate-limiting step in sphingolipid biosynthesis by condensing L-serine and activated acyl-CoA (most commonly palmitoyl-CoA) to form long-chain bases. The SPT complex is also composed of SPTLC2 or SPTLC3 and SPTSSA or SPTSSB. Within this complex, the heterodimer with SPTLC2 or SPTLC3 forms the catalytic core (PubMed:19416851, PubMed:33558762). The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference (PubMed:19416851, PubMed:33558762). The SPTLC1-SPTLC2-SPTSSA complex shows a strong preference for C16-CoA substrate, while the SPTLC1-SPTLC3-SPTSSA isozyme uses both C14-CoA and C16-CoA as substrates, with a slight preference for C14-CoA (PubMed:19648650, PubMed:19416851). The SPTLC1-SPTLC2-SPTSSB complex shows a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme displays

Target Details

	an ability to use a broader range of acyl-CoAs, without apparent preference (PubMed:196486	
	PubMed:19416851, PubMed:33558761, PubMed:33558762). Required for adipocyte cell	
	viability and metabolic homeostasis (By similarity). {ECO:0000250 UniProtKB:O35704,	
	ECO:0000269 PubMed:19416851, ECO:0000269 PubMed:19648650,	
	ECO:0000269 PubMed:33558761, ECO:0000269 PubMed:33558762}.	
Molecular Weight:	52.7 kDa	
UniProt:	015269	

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.	
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