Datasheet for ABIN7555635

SPTLC2 Protein (AA 1-562) (His tag)

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Overview

Quantity:	1 mg
Target:	SPTLC2
Protein Characteristics:	AA 1-562
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPTLC2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat SPTLC2 Protein expressed in mammalien cells.
Sequence:	MRPEPGGCCC RRTVRANGCV ANGEVRNGYV RSSAAAAAAA AAGQIHHVTQ NGGLYKRPFN EAFEETPMLV AVLTYVGYGV LTLFGYLRDF LRYWRIEKCH HATEREEQKD FVSLYQDFEN FYTRNLYMRI RDNWNRPICS VPGARVDIME RQSHDYNWSF KYTGNIIKGV INMGSYNYLG FARNTGSCQE AAAKVLEEYG AGVCSTRQEI GNLDKHEELE ELVARFLGVE AAMAYGMGFA TNSMNIPALV GKGCLILSDE LNHASLVLGA RLSGATIRIF KHNNMQSLEK LLKDAIVYGQ PRTRRPWKKI LILVEGIYSM EGSIVRLPEV IALKKKYKAY LYLDEAHSIG ALGPTGRGVV EYFGLDPEDV DVMMGTFTKS FGASGGYIGG KKELIDYLRT HSHSAVYATS LSPPVVEQII TSMKCIMGQD GTSLGKECVQ QLAENTRYFR RRLKEMGFII YGNEDSPVVP LMLYMPAKIG AFGREMLKRN IGVVVVGFPA TPIIESRARF CLSAAHTKEI LDTALKEIDE VGDLLQLKYS RHRLVPLLDR PFDETTYEET ED **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein**

Product Details

	could make another tag necessary. In case you have a special request, please contact us.
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:	SPTLC2
Alternative Name:	SPTLC2 (SPTLC2 Products)
Background:	Serine palmitoyltransferase 2 (EC 2.3.1.50) (Long chain base biosynthesis protein 2) (LCB 2) (Long chain base biosynthesis protein 2a) (LCB2a) (Serine-palmitoyl-CoA transferase 2) (SPT 2),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 (PubMed:19648650, PubMed:19416851, PubMed:20920666, PubMed:20504773). The SPT complex is composed of SPTLC1, SPTLC2 or SPTLC3 and SPTSSA or SPTSSB. Within this complex, the heterodimer consisting of SPTLC1 and SPTLC2/SPTLC3 forms the catalytic core (PubMed:19416851). The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference (PubMed:19416851). 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

Target Details

	(PubMed:19648650, PubMed:19416851). The SPTLC1-SPTLC2-SPTSSB complex shows a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme displays an ability to use a broader range of acyl-CoAs, without apparent preference (PubMed:19648650, PubMed:19416851). Crucial for adipogenesis (By similarity). {ECO:0000250|UniProtKB:P97363, ECO:0000269|PubMed:19416851, ECO:0000269|PubMed:19648650, ECO:0000269|PubMed:20504773, ECO:0000269|PubMed:20920666}.
Molecular Weight:	62.9 kDa
UniProt:	O15270

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