

Datasheet for ABIN7558527

## SPTLC3 Protein (AA 1-563) (His tag)



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### Overview

Quantity:	1 mg
Target:	SPTLC3
Protein Characteristics:	AA 1-563
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SPTLC3 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Sptlc3 Protein expressed in mammalian cells.
Sequence:	<p>MANLNDSAVT NGTLHNPKTQ QGKRQSTGCV KNGISKEAQQ NRKAYAEDKP VFEPYQEAPL  YVYVLTVMGY GIGILFGYLR DFMRNWGIEK CNAVEREEQ KDFVPLYQDF ENFYKRNLYM  RIRDSWSHTV CSAPEPYMNV MEKVTDDYNW TFRHTGKVIE NIINMASYNY LGLAGKYDDS  MVRVKDTLEK YGVGVASTRN EMGTLDIHKE LEDLMAEFLN VEAVMSFGMG FATNAMNIPV  FVGKGCLILS DEFNHTSVIL GSRLSGAVIR PFKHNNAENL EKLLREAIIR GQPGTGRAWK  KILIVVEGVY SMEGSIVNLA QIVALKKKYK AYLYIDEAHS IGCTGPTGRG VRELFGLDPE  DIDVYMGFTT KSFGSGGYI GKGKEIVDYL RMQSHSTTYA TSMSPVAAQ LIRSLKITMG  YEGNIGGMER IQQLKENIKY FRRRLKEMGF IYGNDFSPV IPVLLYMPAK VSAFSRFLK  KKISVVVGF PATSLPEGRA RFSMSSAHTR EMLDTVLEV VDELGDLLNVK YFPLKKSGRA  ILYNKEGFDN EASFEEMHSE PEA</p> <p><b>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.</b></p>

## 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:	<p><b>Key Benefits:</b></p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	SPTLC3
Alternative Name:	Sptlc3 ( <a href="#">SPTLC3 Products</a> )
Background:	<p>Serine palmitoyltransferase 3 (EC 2.3.1.50) (Long chain base biosynthesis protein 2b) (LCB2b) (Long chain base biosynthesis protein 3) (LCB 3) (Serine-palmitoyl-CoA transferase 3) (SPT 3),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 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. The composition of the serine palmitoyltransferase (SPT) complex determines the substrate preference. 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. The SPTLC1-SPTLC2-SPTSSB complex shows</p>

## Target Details

	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. {ECO:0000250 UniProtKB:Q9NUV7}.
Molecular Weight:	63.5 kDa
UniProt:	<a href="#">Q8BG54</a>

## 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