

Recombinant Mouse Sptlc1 Protein, Myc/DDK-tagged

Cat. No. Sptlc1-02M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse serine palmitoyltransferase, long chain base subunit 1 (Sptlc1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Serine palmitoyltransferase (SPT). The heterodimer formed with SPTLC2 or SPTLC3 constitutes 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. The SPTLC1-SPTLC2-SPTSSB complex displays a strong preference for C18-CoA substrate, while the SPTLC1-SPTLC3-SPTSSB isozyme has the ability to use a broader range of acyl-CoAs. Required for adipocyte cell viability and metabolic homeostasis.
Molecular Mass	53 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Sptlc1 serine palmitoyltransferase, long chain base subunit 1 [Mus musculus (house mouse)]

Official Symbol [Sptlc1](#)

Synonyms Sptlc1; serine palmitoyltransferase, long chain base subunit 1; Sp; Lcb; Lcb1; SPT1; C77762; AW552086; E030036H05; serine palmitoyltransferase 1; long chain base biosynthesis protein 1; serine-palmitoyl-CoA transferase 1; EC 2.3.1.50

Gene ID [268656](#)

mRNA Refseq [NM_009269](#)

Protein Refseq [NP_033295](#)

UniProt ID [O35704](#)

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