

Product datasheet for TP322985L

SPTLC1 (NM_006415) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human serine palmitoyltransferase, long chain base subunit 1 (SPTLC1), transcript variant 1, 1 mg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC222985 representing NM_006415
Red=Cloning site **Green**=Tags(s)

MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIRLLFSKTYKLQERSDLTVKEKEELIEEWQPEPLV
PPVPKDHDPALNYNIVSGPPSHKTVVNGKECINFASFNFLGLLDNPRVKAALASLKKYGVGTGCGPRGFYQ
TFDVHLDLEDRLAKFMKTEEAIISYGFATIASAIPAYSKRGDIVFDRAACFAIQKGLQASRSDIKLFK
HNDMADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLYKYKARIFLEESLSFG
VLGEHGRGVTEHYGINIDDIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLAAAAI
EALNIMEENPGIFAVLKEKCGQIHKALQGISGLKVVGESLSPAFHLQLEESTGSREQDVRLLQEIVDQCM
NRSIALTQARYLEKEEKCLPPPSIRVVVTVEQTEEELERAASTIKEVAQAVLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 52.6 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_006406](#)

Locus ID: 10558

UniProt ID: [O15269](#), [A0A024R277](#), [Q6NUL7](#)

RefSeq Size: 2780

Cytogenetics: 9q22.31

RefSeq ORF: 1419

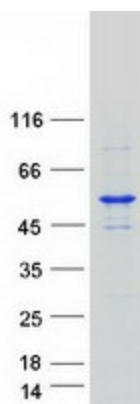
Synonyms: HSN1; HSN1; LBC1; LCB1; SPT1; SPTI

Summary: This gene encodes a member of the class-II pyridoxal-phosphate-dependent aminotransferase family. The encoded protein is the long chain base subunit 1 of serine palmitoyltransferase. Serine palmitoyltransferase converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5'-phosphate and is the key enzyme in sphingolipid biosynthesis. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified. Pseudogenes of this gene have been defined on chromosomes 1, 6, 10, and 13. [provided by RefSeq, Jul 2013]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Metabolic pathways, Sphingolipid metabolism

Product images:



Coomassie blue staining of purified SPTLC1 protein (Cat# [TP322985]). The protein was produced from HEK293T cells transfected with SPTLC1 cDNA clone (Cat# [RC222985]) using MegaTran 2.0 (Cat# [TT210002]).