

Recombinant Full Length Human SPTLC1 Protein, C-Flag-tagged

Cat. No. SPTLC1-1155HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human SPTLC1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	52.6 kDa
AA Sequence	MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIRLLFSKTYKLQERSDLTVKEKEE LIEEWQPEPLV PPVPKDH PALNYNIVSGPPSHKTVVNGKECINFASFN FLGLLDNPR VKAAALASLKKYGVGT CGPRGFYG TFDVHLDLEDRLAKFMKTEEAIISYGFATIASA IPAYSKRGDIVFDRAACFAIQKGLQASRSDIKLFK HNDMADLERLLKEQEIEDQKNP

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RKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFG VLGEHGRGVT
 EHYGINIDDIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLAAAA
 I EALNIMEENPGIFAVLKEKCGQIHKALQGISGLKVVGESLSPAFHLQLEESTGSREQ
 DVRLLEIVDQCM
 NRSIALTQARYLEKEEKCLPPPSIRVVVTVEQTEEEELERAASTIKEVAQAVLLTRTRPL
 EQKLISEEDLAANDILDYKDDDDKV

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.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Metabolic pathways, Sphingolipid metabolism
Full Length	Full L.

GENE INFORMATION

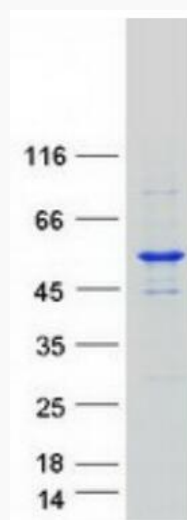
Gene Name	SPTLC1 serine palmitoyltransferase long chain base subunit 1 [Homo sapiens (human)]
Official Symbol	SPTLC1

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Synonyms	HSN1; LBC1; LCB1; SPT1; SPTI; HSN1
Gene ID	10558
mRNA Refseq	NM_006415.4
Protein Refseq	NP_006406.1
MIM	605712
UniProt ID	O15269



Coomassie blue staining of purified SPTLC1 protein.