

Recombinant Human SPTLC1, His-tagged

Cat. No. SPTLC1-30887TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 221-473 of Human SPTLC1 with N terminal His tag; MWt 33 kDa ,
Species	Human
Source	E.coli
ProteinLength	221-473 a.a.
Description	Serine palmitoyltransferase, which consists of two different subunits, is the key enzyme in sphingolipid biosynthesis. It converts L-serine and palmitoyl-CoA to 3-oxosphinganine with pyridoxal 5-phosphate as a cofactor. The product of this gene is the long chain base subunit 1 of serine palmitoyltransferase. Mutations in this gene were identified in patients with hereditary sensory neuropathy type 1. Alternatively spliced variants encoding different isoforms have been identified.
Conjugation	HIS
Tissue specificity	Widely expressed. Not detected in small intestine.
Form	Lyophilised:Reconstitute with 148 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	LKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPEL VKLKYYKARIFLEESLS FGVLGEHGRGVTEHYGINID DIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGY C FSASLPPLAAAAIEALNIMEENPGIFAVLKEKCGQIH KALQGISGLKVVGESLSPA FHLQLEESTGSREQDVRLLQE IVDQCMNRSIALTQARYLEKEEKCLPPPSIRVVTV EQ TEEELERAASTIKEVAQAVLL
Sequence Similarities	Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.

GENE INFORMATION

Gene Name	SPTLC1 serine palmitoyltransferase, long chain base subunit 1 [Homo sapiens]
Official Symbol	SPTLC1
Synonyms	SPTLC1; serine palmitoyltransferase, long chain base subunit 1; hereditary sensory neuropathy, type 1 , HSN1; serine palmitoyltransferase 1; hLCB1; HSN1; LCB1; SPTI;
Gene ID	10558
mRNA Refseq	NM_178324
Protein Refseq	NP_847894
MIM	605712
Uniprot ID	O15269

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Chromosome Location	9q22.31
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, organism-specific biosystem; Sphingolipid metabolism, conserved biosystem;
Function	protein binding; pyridoxal phosphate binding; serine C-palmitoyltransferase activity; transferase activity; transferase activity, transferring acyl groups;

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