

Serine palmitoyltransferase 2 Recombinant Protein | SPTLC2 recombinant protein

Recombinant Human Serine palmitoyltransferase 2

CATALOG # AAA116049	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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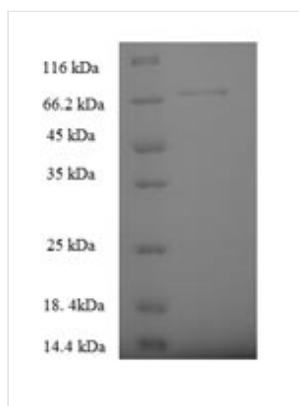
PRODUCT SYNONYMS

Serine palmitoyltransferase 2; Recombinant Human Serine palmitoyltransferase 2; Long chain base biosynthesis protein 2; LCB 2; Long chain base biosynthesis protein 2a; LCB2a; Serine-palmitoyl-CoA transferase 2; SPT 2; SPTLC2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence	RDFLYRWRIE KCHHATEREE QKDFVSLYQD FENFYTRNLY MRIRDNWNRP ICSVPGARVD IMERQSHDYN WSFKYTGNII KGVINMGSYN YLGFAINTGS CQEAAKVLE EYGAGVCSTR QEIGNLDKHE ELEELVARFL GVEAAMAYGM GFATNSMNIP ALVGKGCLIL SDELNHASLV LGARLSGATI RIFKHNNMQS LEKLLKDAIV YGQPRTRRPW KKILILVEGI YSMEGSIVRL PEVIALKKKY KAYLYLDEAH SIGALGPTGR GVVEYFGLDP EDVDVMMGTf TKSFGASGGY IGGKKELIDY LRTHSHSAVY ATSLSPVVE QIITSMKCIM GQDGTSLGKE CVQQLAENTR YFRRRLKEMG FIIYGNEDSP VVPLMLYMPA KIGAFGREML KRNIQVVVVG FPATPIIESR ARFCLSAHT KEILDALKE IDEVGDLLQL KYSRHRLVPL LDRPFDETTY EETED
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SPTLC2 recombinant protein	Serine palmitoyltransferase (SPT). The heterodimer formed with LCB1/SPTLC1 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-SPTLC2-SPTSSB complex displays a preference for C18-CoA substrate.
Product Categories/Family for SPTLC2 recombinant protein	Cancer

References

Human and murine serine-palmitoyl-CoA transferase. Cloning, expression and characterization of the key enzyme in sphingolipid synthesis.Weiss B., Stoffel W.Eur. J. Biochem. 249:239-247(1997) Prediction of the coding sequences of unidentified human genes. IX. The complete sequences of 100 new cDNA clones from brain which can code for large proteins in vitro.Nagase T., Ishikawa K., Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O.DNA Res. 5:31-39(1998) The DNA sequence and analysis of human chromosome 14.Heilig R., Eckenberg R., Petit J.-L., Fonknechten N., Da Silva C., Cattolico L., Levy M., Barbe V., De Berardinis V., Ureta-Vidal A., Pelletier E., Vico V., Anthouard V., Rowen L., Madan A., Qin S., Sun H., Du H., Pepin K., Artiguenave F., Robert C., Cruaud C., Bruels T., Jaillon O., Friedlander L., Samson G., Brottier P., Cure S., Segurens B., Aniere F., Samain S., Crespeau H., Abbasi N., Aiach N., Boscut D., Dickhoff R., Dors M., Dubois I., Friedman C., Gouyvenoux M., James R., Madan A., Mairey-Estrada B., Mangenot S., Martins N., Menard M., Oztas S., Ratcliffe A., Shaffer T., Trask B., Vacherie B., Bellemere C., Belser C., Besnard-Gonnet M., Bartol-Mavel D., Boutard M., Briez-Silla S., Combette S., Dufosse-Laurent V., Ferron C., Lechaplais C., Louesse C., Muselet D., Magdelenat G., Pateau E., Petit E., Sirvain-Trukniewicz P., Trybou A., Vega-Czarny N., Bataille E., Bluet E., Bordelais I., Dubois M., Dumont C., Guerin T., Haffray S., Hammadi R., Muanga J., Pellouin V., Robert D., Wunderle E., Gauguier G., Roy A., Sainte-Marthe L., Verdier J., Verdier-Discala C., Hillier L.W., Fulton L., McPherson J., Matsuda F., Wilson R., Scarpelli C., Gyapay G., Wincker P., Saurin W., Quetier F., Waterston R., Hood L., Weissenbach J.Nature 421:601-607(2003) Sphingolipid synthesis identification and characterization of mammalian cDNAs encoding the Lcb2 subunit of serine palmitoyltransferase.Nagiec M.M., Lester R.L., Dickson R.C.Gene 177:237-241(1996) A molecular inventory of human pancreatic islets sequence analysis of 1000 cDNA clones.Takeda J., Yano H., Eng S., Zeng Y., Bell G.I.Hum. Mol. Genet. 2:1793-1798(1993) Cloning and initial characterization of a new subunit for mammalian serine-palmitoyltransferase.Hornemann T., Richard S., Ruetti M.F., Wei Y., von Eckardstein A.J. Biol. Chem. 281:37275-37281(2006) Identification of small subunits of mammalian serine palmitoyltransferase that confer distinct acyl-CoA substrate specificities.Han G., Gupta S.D., Gable K., Niranjanakumari S., Moitra P., Eichler F., Brown R.H. Jr., Harmon J.M., Dunn T.M.Proc. Natl. Acad. Sci. U.S.A. 106:8186-8191(2009) Mutations in the SPTLC2 subunit of serine palmitoyltransferase cause hereditary sensory and autonomic neuropathy type I.Rothier A., Auer-Grumbach M., Janssens K., Baets J., Penno A., Almeida-Souza L., Van Hoof K., Jacobs A., De Vriendt E., Schlotter-Weigel B., Loscher W., Vondracek P., Seeman P., De Jonghe P., Van Dijk P., Jordanova A., Hornemann T., Timmerman V.Am. J. Hum. Genet. 87:513-522(2010) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstuemmer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) Hereditary sensory and autonomic neuropathy type 1 (HSAN1) caused by a novel mutation in SPTLC2.Murphy S.M., Ernst D., Wei Y., Laura M., Liu Y.T., Polke J., Blake J., Winer J., Houlden H., Hornemann T., Reilly M.M.Neurology 80:2106-2111(2013)

NCBI AND UNIPROT INFORMATION

NCBI GI #	4758668
NCBI GeneID	9517
NCBI Accession #	NP_004854.1
NCBI GenBank Nucleotide #	NM_004863.3
UniProt Accession #	O15270; Q16685
Molecular Weight	69.7 kDa
NCBI Official Full Name	serine palmitoyltransferase 2
NCBI Official Synonym Full Names	serine palmitoyltransferase long chain base subunit 2
NCBI Official Symbol	SPTLC2
NCBI Official Synonym Symbols	LCB2; SPT2; HSN1C; LCB2A; NSAN1C; hLCB2a
NCBI Protein Information	serine palmitoyltransferase 2
UniProt Protein Name	Serine palmitoyltransferase 2
UniProt Gene Name	SPTLC2
UniProt Synonym Gene Names	KIAA0526; LCB2; LCB 2; LCB2a; SPT 2
UniProt Entry Name	SPTC2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/sptlc2-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/116049>