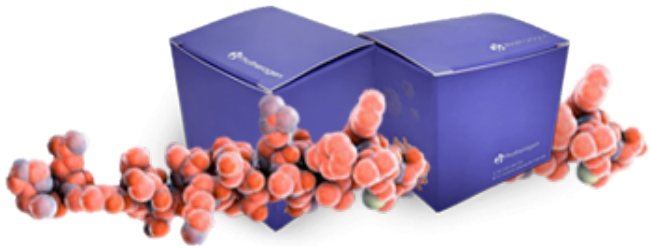
Protheragen Obesity



Duck serine palmitoyltransferase; long chain base subunit 3 (SPTLC3) ELISA kit

Cat. No.:	0126WXX-1832
Assay Type:	Quantitative ELISA
Target Species:	Duck
Assay Target:	SPTLC3
Size:	1 kit

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Duck serine palmitoyltransferase; long chain base subunit 3 (SPTLC3) ELISA kit i s an ELISA-based *in vitro* research tool designed specifically for the qua ntitative detection of SPTLC3 in duck samples. The kit is highly sensitive and e asy to use.
Assay Principle	The ELISA analytical biochemical technique is based on SPTLC3 antibody-SPTLC3 an tigen interactions (immunosorbency) and an HRP colorimetric detection system to detect SPTLC3 antigen targets in samples.
Background	Serine palmitoyltransferase long chain base subunit 3 (SPTLC3) is a key enzyme s ubunit of serine palmitoyltransferase, the rate-limiting enzyme in sphingolipid biosynthesis. SPTLC3 catalyzes the condensation of serine with fatty acyl-CoA to produce long-chain base sphingoid intermediates, which are essential for the ge neration of complex sphingolipids involved in cell membrane structure and signal ing. Proper SPTLC3 activity is critical for lipid homeostasis, while dysregulati on can lead to altered sphingolipid metabolism, contributing to impaired adipocy te function, lipid accumulation, and the development of obesity and obesity-rela ted metabolic disorders.
Synonyms	SPTLC2L; Long chain base biosynthesis protein 3; SPT 3; LCB 3; C20orf38; Aminotr ansferase 2; Serine-palmitoyl-CoA transferase 3
Formula Weight	62,049 Da

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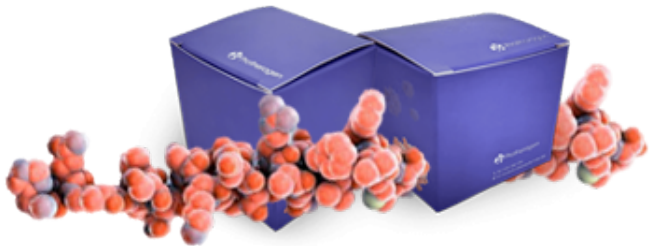

Applications	Duck serine palmitoyltransferase, long chain base subunit 3 (SPTLC3) ELISA kit i s used to quantify SPTLC3 in duck samples, providing data to support research in a wide range of areas, including enzyme and kinase, obesity, and others.
Research Area	Enzyme & Kinase; Obesity

Specification

Sample Type	Duck samples
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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