



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

Cat. No.:	0126WXX-1830
Assay Type:	Quantitative ELISA
Target Species:	Chicken
Assay Target:	SPTLC3
Size:	1 kit

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

Product Overview

Description	Chicken serine palmitoyltransferase; long chain base subunit 3 (SPTLC3) ELISA kit is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of SPTLC3 in chicken samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on SPTLC3 antibody-SPTLC3 antigen 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 subunit 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 generation of complex sphingolipids involved in cell membrane structure and signaling. Proper SPTLC3 activity is critical for lipid homeostasis, while dysregulation can lead to altered sphingolipid metabolism, contributing to impaired adipocyte function, lipid accumulation, and the development of obesity and obesity-related metabolic disorders.
Synonyms	SPTLC2L; Long chain base biosynthesis protein 3; SPT 3; LCB 3; C20orf38; Aminotransferase 2; Serine-palmitoyl-CoA transferase 3
Formula Weight	62,049 Da



Applications

Chicken serine palmitoyltransferase, long chain base subunit 3 (SPTLC3) ELISA kit is used to quantify SPTLC3 in chicken 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

Chicken samples

Cross-reactivity

No significant cross-reactivity or interference was observed.

Storage

Store at 2-8°C.