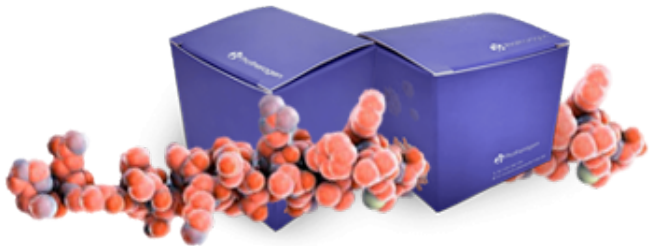
Protheragen Obesity



Human pancreatic lipase (PL) ELISA kit (15.625-1000 ng/mL)

Cat. No.:	0126WXX-1328
Assay Type:	Quantitative sandwich ELISA
Target Species:	Human
Assay Target:	PL
Size:	24T; 48T; 96T

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

Product Overview

Description	Human pancreatic lipase (PL) ELISA kit (15.625-1000 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantitative detection of PL in human samples with a range of 15.625-1000 ng/mL and a minimum detectabl e dose (sensitivity) of 9.375 ng/mL. The kit is highly sensitive and easy to use .
Assay Principle	The ELISA analytical biochemical technique is based on PL antibody-PL antigen in teractions (immunosorbency) and an HRP colorimetric detection system to detect P L antigen targets in samples.
Background	PL, a key member of the lipase gene family located at chromosomal position 10q26 .1, is a specialized carboxyl esterase (EC 3.1.1.3) specifically expressed in th e pancreas and secreted into the extracellular region. This hydrolase is essenti al for the efficient digestion of dietary fats, specifically driving the hydroly sis of insoluble, emulsified triglycerides into absorbable components. Beyond it s primary role in lipid catabolism and cholesterol absorption, PNLIP is involved in retinoid metabolic processes and is the central molecular driver in Pancreat ic Lipase Deficiency, making it a fundamental target for understanding gastroint estinal lipid digestion and its systemic impact on energy balance.
Synonyms	PNLIP; PTL; Lipase; pancreatic; Pancreatic triacylglycerol lipase
Formula Weight	51,157 Da

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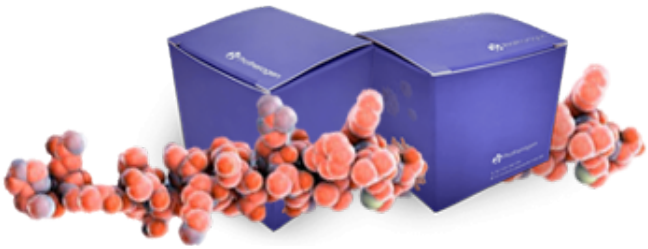

Applications	Human pancreatic lipase (PL) ELISA kit (15.625-1000 ng/mL) is used to quantify P L in serum, plasma, and biological fluids of humans, providing data to support r esearch in a wide range of areas, including enzyme and kinase, metabolic pathway , Infection immunity, hepatology, obesity, and others.
Research Area	Enzyme & Kinase; Metabolic pathway; Infection immunity; Hepatology; Obesity

Specification

Sample Type	Serum; Plasma; Biological fluids
Detection Range	15.625-1000 ng/mL
Sensitivity	9.375 ng/mL
Cross-reactivity	No significant cross-reactivity or interference was observed.
Recovery	83-103%
Storage	Store at 2-8°C.

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