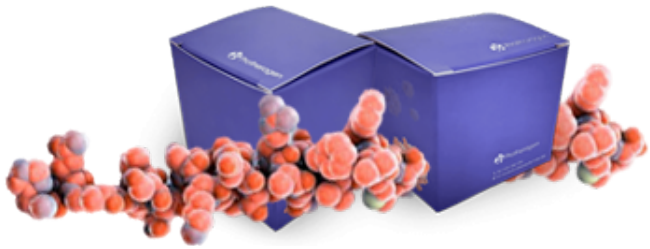
Protheragen Obesity



Rat lipoprotein lipase (LPL) ELISA kit (50-1600 U/L)

Cat. No.:	0126WXX-966
Assay Type:	Quantitative sandwich ELISA
Target Species:	Rat
Assay Target:	LPL
Size:	48T; 96T

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

Product Overview

Description	Rat lipoprotein lipase (LPL) ELISA kit (50-1600 U/L) is an ELISA-based *in vit ro* research tool designed specifically for the quantitative detection of LPL in rat samples with a range of 50-1600 U/L and a minimum detectable dose (sensi tivity) of 10 U/L. The kit is highly sensitive and easy to use.
Assay Principle	Purified rat LPL antibody is used to coat microelisa strip plate wells to create a solid-phase antibody. LPL and HRP-labeled LPL antibody are added to form an a ntibody-antigen-antibody-enzyme complex. After complete washing, the TMB substra te solution is added, turning blue under HRP catalysis. The reaction is terminat ed with a sulphuric acid solution, and the color change is measured at 450 nm. T he LPL concentration is then determined by comparing the sample O.D. to the stan dard curve.
Background	LPL is an enzyme belonging to the lipoprotein lipase family. Its primary functio n is to break down triglycerides (a type of fat) in the blood. Specifically, LPL hydrolyzes triglycerides present in circulating lipoproteins such as chylomicro ns and very low-density lipoproteins (VLDL). The free fatty acids and monoglycer ides released during this process can be utilized by cells to generate energy or stored for later use. LPL's direct relevance to obesity research lies in its pi votal role in fat storage and metabolism. Given its central function in lipid me tabolism, LPL has emerged as a key biological factor in obesity studies.
Synonyms	Clearing factor; Clearing factor lipase; EC 3.1.1.34

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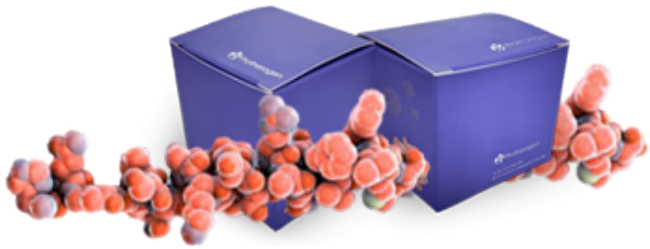

EC NO.	3.1.1.34
Formula Weight	53,162 Da
Applications	Rat lipoprotein lipase (LPL) ELISA kit (50-1600 U/L) is used to quantify LPL in serum, plasma, tissue homogenate, feces, and urine of rat, providing data to sup port research in a wide range of areas, including signal transduction, metabolis m, obesity, *etc*.
Research Area	Signal Transduction; Metabolism; Obesity

Specification

Sample Type	Serum; Plasma; Tissue homogenate; Feces; Urine
Detection Range	50-1600 U/L
Sensitivity	10 U/L
Precision (Intra-assay)	CV<15%
Precision (Inter-assay)	CV<15%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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