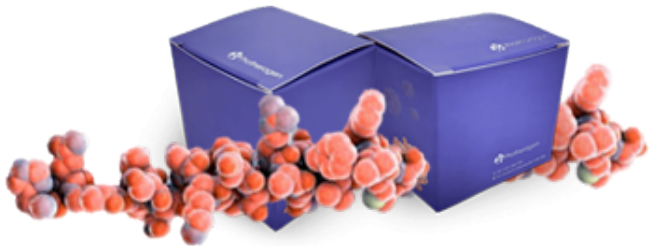
Protheragen
Obesity



Fish lipoprotein lipase (LPL) ELISA kit (0.2-70 ng/mL)

Cat. No.:	0126WXX-938
Assay Type:	Quantitative sandwich ELISA
Target Species:	Fish
Assay Target:	LPL
Size:	48T; 96T

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

Product Overview

Description	Fish lipoprotein lipase (LPL) ELISA kit (0.2-70 ng/mL) is an ELISA-based *in v itro* research tool designed specifically for the quantitative detection of L PL in fish samples with a range of 0.2-70 ng/mL and a minimum detectable dose (s ensitivity) of 0.109 ng/mL. The kit is highly sensitive and easy to use.
Assay Principle	The plate is pre-coated with a fish LPL antibody. LPL present in the sample bind s to the immobilized antibodies, followed by the addition of a biotinylated fish LPL detection antibody and streptavidin-HRP. After incubation and a wash step t o remove unbound reagents, a substrate solution is introduced. Color develops in direct proportion to the amount of fish LPL. The reaction is terminated with an acidic stop solution, and the absorbance is measured at 450 nm.
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
EC NO.	3.1.1.34

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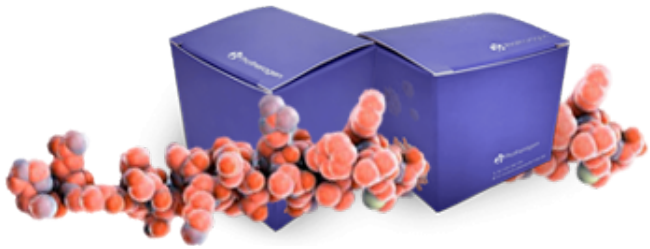

Formula Weight	53,162 Da
Applications	Fish lipoprotein lipase (LPL) ELISA kit (0.2-70 ng/mL) is used to quantify LPL i n serum, plasma, cell culture supernatants, ascites, tissue homogenates, and oth er biological fluids of fish, providing data to support research in a wide range of areas, including signal transduction, metabolism, obesity, *etc*.
Research Area	Signal Transduction; Metabolism; Obesity

Specification

Sample Type	Serum; Plasma; Cell culture supernatants; Ascites; Tissue homogenates; Other bio logical fluids
Detection Range	0.2-70 ng/mL
Sensitivity	0.109 ng/mL
Precision (Intra-assay)	CV<8%
Precision (Inter-assay)	CV<10%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.

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