

Human CellExp™ Lipoprotein Lipase, Human Recombinant

CATALOG NO:	P1309-10 10 µg
ALTERNATE NAMES:	Lipoprotein lipase, LPL, LIPD, HDLCQ11
SOURCE:	HEK 293 cells (Ala28 - Gly475)
MOL. WEIGHT:	This protein carries a FLAG- tag at N-terminus. The protein has a calculated MW of 51.8 kDa (Ala28-Gly475, variant Asn > Ser318).
FORM:	Lyophilized
FORMULATION:	Lyophilized from (0.4 µm) filtered solution 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.
RECONSTITUTION:	Centrifuge the vial prior to opening. Reconstitute in sterile deionized water to a concentration of 0.5 mg/ml and let the lyophilized pellet dissolve completely. Please prevent freeze-thaw cycles.
STORAGE CONDITIONS:	Store lyophilized protein at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C.
DESCRIPTION:	LPL is a lipoprotein lipase, which is expressed in the heart, muscle, and adipose tissue. LPL acts as a homodimer, and has the dual functions of triglyceride hydrolase and ligand/bridging factor for receptor-mediated lipoprotein uptake. Type I hyperlipoproteinemia is a result of severe mutations which cause LPL deficiency, whereas less extreme mutations in LPL are linked to many disorders of lipoprotein metabolism. Lipoprotein lipase (LPL) is a fundamental enzyme in plasma triglyceride hydrolysis and is secreted by macrophages in the subendothelial space. LPL also promotes the development of atherosclerosis through facilitation of monocyte adhesion to endothelial cells, stimulation of tumor necrosis factor alpha (TNF) secretion and induction of vascular smooth muscle cell proliferation.

RELATED PRODUCTS:

- LPL Antibody (**Cat. No. 3947**)
- LPL Blocking Peptide (**Cat. No. 3947BP**)
- Lipoprotein Lipase Activity Fluorometric Assay Kit (**Cat. No. K721**)
- Apolipoprotein AIV, Human Plasma (**Cat. No. 7282**)
- Apolipoprotein CII, Human Plasma (**Cat. No. 4704**)

FOR RESEARCH USE ONLY! Not to be used on humans.