

Recombinant Human LPL, His-tagged

Cat. No. LPL-1014H Lot. No. (See product label)

SPECIFICATION

Product Overview	Total 458 AA. MW: 51.61 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
Description	LPL is a member of the lipase gene family, which includes pancreatic lipase, hepatic lipase, and endothelial lipase. It is a water soluble enzyme that hydrolyzes triglycerides in lipoproteins, such as those found in chylomicrons and very low-density lipoproteins (VLDL), into two free fatty acids and one monoacylglycerol molecule. It is also involved in promoting the cellular uptake of chylomicron remnants, cholesterol-rich lipoproteins, and free fatty acids. LPL requires Apo-CII as a cofactor.
Form	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 50mM Acetate buffer, pH=4
Research topic	Energy metabolism and body weight regulation
Reconstitution	Add 0.1 M Acetate buffer pH 4 to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10 µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; LAL TEST to determine endotoxin level
Sequences of amino acids	MKHHHHHHAS ADQRRDFIDI ESKFALRTPE DTAEDTCHLI PGVAESVATC HFNHSSKTFM VIHGWTVTGM YESWVPKLVA ALYKREPDSN VIVVDWLSRA QEHYPVSAGY TKLVGQDVAR FINWMEEEFN YPLDNVHLLG YSLGAHAAGI AGSLTNKKVN RITGLDPAGP NFEYAEAPSR LSPDDADFVD VLHTFTRGSP GRSIGIQKPV GHVDIYPNGG TFQPGCNIGE AIRVIAERGL GDVDQLVKCS
Storage	Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

GENE INFORMATION

Gene Name	LPL lipoprotein lipase [Homo sapiens]
Official Symbol	LPL
Synonyms	LPL; lipoprotein lipase; LIPD; HDLCQ11; lipoprotein lipase; OTTHUMP00000034806
Gene ID	4023
mRNA Refseq	NM_000237
Protein Refseq	NP_000228
MIM	609708

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UniProt ID	P06858
Chromosome Location	8p22
Pathway	Adipogenesis; Alzheimer's disease; Chylomicron-mediated lipid transport; Diabetes pathways; Fatty Acid Beta Oxidation; Glycerolipid metabolism; Lipid digestion; Lipoprotein metabolism; Metabolism of lipids and lipoproteins; PPAR signaling pathway; Statin Pathway; Transcriptional Regulation of White Adipocyte Differentiation; Triacylglyceride Synthesis; Vitamin A and carotenoid metabolism
Function	heparin binding; hydrolase activity; lipoprotein lipase activity; phospholipase activity; protein binding; receptor binding; triglyceride binding; triglyceride lipase activity

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