

## Recombinant Human LPL, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Total 458 AA. MW: 51.61 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Form</b>	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 50mM Acetate buffer, pH=4
<b>Research topic</b>	Energy metabolism and body weight regulation
<b>Reconstitution</b>	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.

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<b>Applications</b>	Western blotting
<b>Quality Control Test</b>	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; LAL TEST to determine endotoxin level
<b>Sequences of amino acids</b>	MKHHHHHHAS ADQRRDFIDI ESKFALRTPE DTAEDTCHLI PGVAESVATC HFNHSSKTFM VIHGWTVTGM YESWVPLVA ALYKREPDSN VIVVDWLSRA QEHYPVSAGY TKLVGQDVAR FINWMEEEFN YPLDNVHLLG YSLGAHAAGI AGSLTNKKVN RITGLDPAGP NFEYAEAPSR LSPDDADFVD VLHTFTRGSP GRSIGIQKPV GHVDIYPNGG TFQPGCNIGE AIRVIAERGL GDVDQLVKCS
<b>Storage</b>	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

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

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<b>UniProt ID</b>	P06858
<b>Chromosome Location</b>	8p22
<b>Pathway</b>	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
<b>Function</b>	heparin binding; hydrolase activity; lipoprotein lipase activity; phospholipase activity; protein binding; receptor binding; triglyceride binding; triglyceride lipase activity

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