

Recombinant Human LPL, His-tagged

Cat. No. LPL-28596TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length mature Human Lipoprotein lipase with an N Terminal His tag; 458 amino acids with a predicted MWt of 51.61kDa.
Species	Human
Source	E.coli
ProteinLength	448 amino acids
Description	LPL encodes lipoprotein lipase, which is expressed in heart, muscle, and adipose tissue. LPL functions as a homodimer, and has the dual functions of triglyceride hydrolase and ligand/bridging factor for receptor-mediated lipoprotein uptake. Severe mutations that cause LPL deficiency result in type I hyperlipoproteinemia, while less extreme mutations in LPL are linked to many disorders of lipoprotein metabolism.
Conjugation	HIS
Molecular Weight	51.610kDa inclusive of tags
Form	Lyophilised:To reconstitute, add 0.1M Acetate buffer pH4.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. In higher concentrations the
Storage buffer	pH: 4.00Constituents:0.4% Sodium acetate, 0.3% Acetic acid

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Storage	Store at -80°C
Sequences of amino acids	<p>MKHHHHHHASADQRRDFIDIESKFALRTPEDTAEDTCHLI PGVAESVATCHFNHSSK TFMVIHGWTVTGMYESWVPLVA ALYKREPDSNVIVVDWLSRAQEHYPVSAGYTK LVGQDVAR FINWMEEEFNYP LDNVHLLGYS LGAHAAGIAGSLTNKKVN RITGLDPA GPNFEYAEAPSRLSPDDADFVDVLHTFTRGSP GRSIGIQKPVGHVDIYPNGGTFQP GCNIGEAIRVIAERGL GDVDQLVKCSHERSIHLFIDSLNNEENPSKAYRCSSKEAF EK GLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRSQMP YKVFHYQVKIHFSGTESE THTNQAFEISLYGTVAESENIP FTLPEVSTNKTYSF LIYTEVDIGELLMLKLKWKSDSY FSW SDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQK GK APAVFKCHDKS LNKKSG</p>
Sequence Similarities	Belongs to the AB hydrolase superfamily. Lipase family. Contains 1 PLAT domain.

GENE INFORMATION

Gene Name	LPL lipoprotein lipase [Homo sapiens]
Official Symbol	LPL
Synonyms	LPL; lipoprotein lipase; LIPD;
Gene ID	4023
mRNA Refseq	NM_000237
Protein Refseq	NP_000228
Uniprot ID	P06858

Chromosome Location	8p22
Pathway	Adipogenesis, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	heparin binding; hydrolase activity; lipoprotein lipase activity; lipoprotein lipase activity; lipoprotein lipase activity;

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