

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: 4.00 Constituents: 0.4% Sodium acetate, 0.3% Acetic acid

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Storage	Store at -80°C
Sequences of amino acids	MKHHHHHHASADQRRDFIDIESKFALRTPEDTAEDTCHLI PGVAESVATCHFNHSSK TFMVIHGWTVTGMYESWVPKLVA ALYKREPDSNVIVVDWLSRAQEHYPVSAGYTK LVGQDVAR FINWMEEEFNYP LDNVHLLGYSLGAHAAGIAGSLTNKKVN RITGLDPA GPNFEYAEAPSRLSPDDADFVDVLHTFTRGSP GRSIGIQKPVGHVDIYPNGGTFQP GCNIGEAIRVIAERGL GDVDQLVKCSHERSIHLFIDSLNEENPSKAYRCSSKEAF EK GLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRSQMP YKVFHYQVKIHFSGTESE THTNQAFEISLYGTVAESENIP FTLPEVSTNKTYSFLLIYTEVDIGELLMLKLKWKSDSY FSW SDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQKGK APAVFKCHDKS LNKKS
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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