

Recombinant Human LPL, FLAG-tagged

Cat. No. LPL-27722TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full length Human Lipoprotein lipase with an N terminal DDDDK tag; 461 amino acids, MWt 51.8kDa.
Species	Human
Source	HEK293
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	FLAG
Molecular Weight	51.800kDa inclusive of tags
Form	Lyophilised: Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage.
Purity	Densitometry

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Storage buffer	pH: 7.50 Constituents: 0.24% Tris buffer, 0.29% Sodium chloride
Storage	Store at -80°C
Sequences of amino acids	HVDYKDDDDKPAGADQRRDFIDIESKFALRTPEDTAEDTC HLIPGVAESVATCHFNH SSKTFMVIHGWTVTGMYESWVPK LVAALYKREPDSNVIVVDWLSRAQEHYPVSAG YTKLVGQD VARFINWMEEEFNYP LDNVHLLGYSLGAHAAGIAGSLTNK KVNRTIGL DPAGPNFEYAEAPSRLSPDDADFVDVLHTFTR GSPGRSIGIQKPVGHVDIYPNGGT FQPGCNIGEAIRVIAE RGLGDVDQLVKCSHERSIHLFIDSLNNEENPSKAYRCSSK E AFEKGLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRS QMPYKVFHYQVKIHFSG TESEHTNQAFEISLYGTVAESE NIPFTLPEVSTNKTYSFLIYTEVDIGELLMLKLKWK SDSY FSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQ KGKAPAVFVKC HDKSLNKKSG
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

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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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