

## Recombinant Human LPL, FLAG-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Full length Human Lipoprotein lipase with an N terminal DDDDK tag; 461 amino acids, MWt 51.8kDa.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	448 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	FLAG
<b>Molecular Weight</b>	51.800kDa inclusive of tags
<b>Form</b>	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.
<b>Purity</b>	Densitometry

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<b>Storage buffer</b>	pH: 7.50 Constituents: 0.24% Tris buffer, 0.29% Sodium chloride
<b>Storage</b>	Store at -80°C
<b>Sequences of amino acids</b>	<p>HVDYKDDDDKPAGADQRRDFIDIESKFALRTPEDTAEDTC HLIPGVAESVATCHFNH            SSKTFMVIHGWTVTGMYESWVPK LVAALYKREPDSNVIVVDWLSRAQEHYPVSAG            YTKLVGQD VARFINWMEEEFNYP LDNVHLLGYSLGAHAAGIAGSLTNK KVNRTIGL            DPAGPNFEYAEAPSRLSPDDADFVDVLHTFTR GSPGRSIGIQKPVGHVDIYPNGGT            FQPGCNIGEAIRVIAE RGLGDVDQLVKCSHERSIHLFIDSLLEENPSKAYRCSSK E            AFEKGLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRS QMPYKVFHYQVKIHFSG            TESEHTNQAFEISLYGTVAESE NIPFTLPEVSTNKTYSFLLIYTEVDIGELLMLKWK            SDSY FSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQ KGKAPAVFVKC            HDKSLNKKSG</p>
<b>Sequence Similarities</b>	Belongs to the AB hydrolase superfamily. Lipase family. Contains 1 PLAT domain.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">LPL lipoprotein lipase [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">LPL</a>
<b>Synonyms</b>	LPL; lipoprotein lipase; LIPD;
<b>Gene ID</b>	<a href="#">4023</a>
<b>mRNA Refseq</b>	<a href="#">NM_000237</a>
<b>Protein Refseq</b>	<a href="#">NP_000228</a>

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<b>Uniprot ID</b>	P06858
<b>Chromosome Location</b>	8p22
<b>Pathway</b>	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;
<b>Function</b>	heparin binding; hydrolase activity; lipoprotein lipase activity; lipoprotein lipase activity; lipoprotein lipase activity;

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