

## Recombinant Human LPL, FLAG-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| <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</p> <p>SSKTFMVIHGWTVTGMYESWVPK LVAALYKREPDSNVIVVDWLSRAQEHYPVSAG</p> <p>YTKLVGQD VARFINWMEEEFNYP LDNVHLLGYSLGAHAAGIAGSLTNK KVNRTIGL</p> <p>DPAGPNFEYAEAPSRLSPDDADFVDVLHTFTR GSPGRSIGIQKPVGHVDIYPNGGT</p> <p>FQPGCNIGEAIRVIAE RGLGDVDQLVKCSHERSIHLFIDSLNNEENPSKAYRCSSK E</p> <p>AFEKGLCLSCRKNRCNNLGYEISKVRAKRSSKMYLKTRS QMPYKVFHYQVKIHFSG</p> <p>TESEHTNQAFEISLYGTVAESE NIPFTLPEVSTNKTYSFLLIYTEVDIGELLMLKLKWK</p> <p>SDSY FSWSDWWSSPGFAIQKIRVKAGETQKKVIFCSREKVSHLQ KGKAPAVFVKC</p> <p>HDKSLNKKSG</p> |
| <b>Sequence Similarities</b>    | Belongs to the AB hydrolase superfamily. Lipase family. Contains 1 PLAT domain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## GENE INFORMATION

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

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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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