

# Active Recombinant Human LPL Protein, His-tagged

**Cat. No.** LPL-22H    **Lot. No.** (See product label)

## SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Recombinant Human Lipoprotein Lipase-LPL Protein (Ala28-Gly475) with a C-terminal 6-His tag was expressed in Chinese Hamster Ovary cell line.                                                                                                                                                                                                                                                                                  |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>                       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>                | 28-475 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <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>Bio-activity</b>                 | Measured by its ability to hydrolyze 4-Nitrophenyl butyrate. The specific activity is >2,500 pmol/min/μg.                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Mass</b>               | 51 kDa                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>N-terminal Sequence Analysis</b> | Ala28                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Endotoxin</b>                    | <0.10 EU per 1 μg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                            |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                           |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>6 months from date of receipt, -70 centigrade as supplied.<br>3 months, -70 centigrade under sterile conditions after opening. |
| <b>Storage Buffer</b> | Supplied as a 0.2 µm filtered solution in Tris, NaCl, CHAPS and Glycerol.                                                                                                                             |
| <b>Shipping</b>       | The product is shipped with dry ice or equivalent.                                                                                                                                                    |

## GENE INFORMATION

|                        |                                                                         |
|------------------------|-------------------------------------------------------------------------|
| <b>Gene Name</b>       | LPL lipoprotein lipase [ Homo sapiens (human) ]                         |
| <b>Official Symbol</b> | LPL                                                                     |
| <b>Synonyms</b>        | LPL; lipoprotein lipase; LIPD; HDLCQ11; lipoprotein lipase; EC 3.1.1.34 |
| <b>Gene ID</b>         | 4023                                                                    |
| <b>mRNA Refseq</b>     | NM_000237                                                               |
| <b>Protein Refseq</b>  | NP_000228                                                               |
| <b>MIM</b>             | 609708                                                                  |
| <b>UniProt ID</b>      | P06858                                                                  |

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