

## LPL Protein, Mouse, Recombinant (His)

## General Information

Synonyms: Phospholipase A1;LPL;Lipoprotein lipase

Protein Construction: 28-474 aa

Species: Mouse

Expression Host: Baculovirus Insect Cells

Accession: P11152

Molecular Weight: 52.8 kDa (predicted)

AA Sequence: ADAGRDFSDIESKFALRTPEDTAEDTCHLIPGLADSVSNCHFNFHSSKTFVVIHGWTVTGMYESWVPKLVAALY  
KREPDSNVIVVDWLYRAQQHYVVSAGYTKLVGNDVARFINWMEEEFNYPDNDVHLLGYSLGAAHAAGVAGSL  
TNKKVNRITGLDPAGPNFEYAEAPSRLSPDDADFVDVLTFTFRGSPGRSIGIQKPVGHVDIYPNGGTFQPGCN  
IGEAIRVIAERGLGDVDQLVKCSHERSIHLFIDSLLEENPSKAYRCNSKEAFEKGLCLSCRKNRCNNLGYEINK  
VRAKRSSKMYLKTRSQMPYKVFHYQVKIHFSGTEDGKQHNQAFEISLYGTVAESENIPFTLPEVSTNKTYSFLI  
YTEVDIGELLMMLKWISDSYFSWPDWWSSPSFVIERIRVKAGETQKKVIFCAREKVSHLQKKGDSAVFVKCH  
DKSLKKSG

## QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

## Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

*Actual storage temperature shall be subject to the COA.*

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

## A DRUG SCREENING EXPERT

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Key enzyme in triglyceride metabolism. Catalyzes the hydrolysis of triglycerides from circulating chylomicrons and very low density lipoproteins (VLDL), and thereby plays an important role in lipid clearance from the blood stream, lipid utilization and storage. Although it has both phospholipase and triglyceride lipase activities it is primarily a triglyceride lipase with low but detectable phospholipase activity. Mediates margination of triglyceride-rich lipoprotein particles in capillaries. Recruited to its site of action on vascular endothelium by binding to GPIHBP1 and cell surface heparan sulfate proteoglycans.

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