Product Data Sheet

Product Name:	LPL Human
Cat. No.:	GP21888
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Lipoprotein lipase; LPL; LIPD; HDLCQ11.		
Amino Acid Sequence	MKHHHHHHAS ADQRRDFIDI ESKFALRTPE DTAEDTCHLI PGVAESVATC HFNHSSKTFM VIHGWTVTGM YESWVPKLVA ADQRRDFIDI ESKFALRTPE DTAEDTCHLI PGVAESVATC HFNHSSKTFM VIHGWTVTGM YESWVPKLVA ALYKREPDSN VIVVDWLSRA QEHYPVSAGY TKLVGQDVAR FINWMEEEFN YPLDNVHLLG YSLGAHAAGI AGSLTNKKVN RITGLDPAGP NFEYAEAPSR LSPDDADFVD VLHTFTRGSP GRSIGIQKPV GHVDIYPNGG TFQPGCNIGE AIRVIAERGL GDVDQLVKCS HERSIHLFID SLLNEENPSK AYRCSSKEAF EKGLCLSCRK NRCNNLGYEI SKVRAKRSSK MYLKTRSQMP YKVFHYQVKI HFSGTESETH TNQAFEISLY GTVAESENIP FTLPEVSTNK TYSFLIYTEV DIGELLMLKL KWKSDSYFSW SDWWSSPGFA IQKIRVKAGE TQKKVIFCSR EKVSHLQKGK APAVFVKCHD KSLNKKSG.		
Solubility	It is recommended to add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10μg/ml. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	LPL was filtered (0.4 μm) and lyophilizedfrom 0.5 mg/ml in 50mM Acetate buffer, pH=4.		

Introduction

LPL is a lipoprotein lipase, which is expressed in the heart, muscle, and adipose tissue. LPL acts as a homodimer, and has the dual functions of triglyceride hydrolase and

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com
Address: 10292 Central Ave. #205, Montclair, CA, USA

ligand/bridging factor for receptor-mediated lipoprotein uptake. Type I hyperlipoproteinemia is a result of severe mutations which cause LPL deficiency, whereas less extreme mutations in LPL are linked to many disorders of lipoprotein metabolism. Lipoprotein lipase (LPL) is a fundamental enzyme in plasma triglyceride hydrolysis and is secreted by macrophages in the subendothelial space. LPL also promotes the development of atherosclerosis through facilitation of monocyte adhesion to endothelial cells, stimulation of tumor necrosis factor alpha (TNF) secretion and induction of vascular smooth muscle cell proliferation.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

The Recombinant Human LPL produced in E.colihas a molecular mass of 51.61kDa containing458 amino acid residues of the human LPL and fused to a10 a.a. His tag at N-terminus.