
Product Data Sheet

Product Name: LPL Human, HEK

Cat. No.: GP21889

Batch No.: 1

Product Data

Purity	>98%	Source	HEK293 (Human Embryonic Kidney cell line).
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Lipoprotein lipase; LPL; LIPD; HDLCQ11.		
Amino Acid Sequence	<p>HVDYKDDDDK PAGADQRRDF IDIESKFALR TPEDTAEDTC HLIPGVAESV ATCHF NHSSK TFMVIHGWTV TGMYESWVPK ADQRRDF IDIESKFALR TPEDTAEDTC HLIPGVAESV ATCHF NHSSK TFMVIHGWTV TGMYESWVPK LVAALYKREP DSNVIVVDWL SRAQEHYPVS AGYTKLVGQD VARFINWMEE EFNYP LDNVH LLGYSLGAHA AGIAGSLTNK KVNRTGLDP AGPNFEYAEA PSRLSPDDAD FVDVLHTFTR GSPGRSIGIQ KPVGHVDIYP NGGTFQPGCN IGEAIRVIAE RGLGDVDQLV KCSHERSIHL FIDSLNNEEN PSKAYRCSSK EAFEKGLCLS CRKNRCNNLG YEISKVRAKR SSKMYLKTRS QMPYKVFHYQ VKIHFSGTES ETHTNQAFEI SLYGTVAESE NIPFTLPEVS TNKTYSFLIY TEVDIGELLM LCLKWKSDSY FSWSDWWSSP GFAIQKIRVK AGETQKKVIF CSREKVSHLQ KGKAPAVFVK CHDKSLNKKS G.</p>		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. 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 μ m) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.		

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 ligand/bridging factor for receptor-mediated lipoprotein uptake. Type I hyperlipoproteinemia is a result of severe mutations which cause LPL deficiency,

Caution: Product has not been fully validated for medical applications. For research use only.

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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 HEK293 cell line has a molecular mass of 51.8kDa containing 461 amino acid residues of the human LPL (Ala28-Gly475, variant Asn > Ser318) and fused to a 13 a.a. Flag-tag at N-terminus.

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