

Lipoprotein Lipase Human E. coli

Product Data Sheet

Type: Recombinant Cat. No.:

Source: E. coli RD172131100 (0.1 mg)

Species: Human

Other names: LPL, LIPD

Description

Total 458 AA. MW: 51.61 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).

Introduction to the Molecule

Lipoprotein lipase (LPL) is the central enzyme in plasma triglyceride hydrolysis and is secreted by macrophages in the subendothelial space. When LPL is produced by macrophages in the vessel wall it has proatherogenic effects. The atherogenic effects of LPL have been attributed mainly to its ability to favor lipid accumulation within macrophages in the atherosclerotic lesion. 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.

Research topic

Lipoprotein metabolism

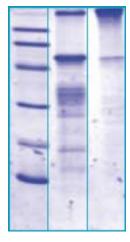
Amino Acid Sequence

MKHHHHHHAS	ADQRRDFIDI	ESKFALRTPE	DTAEDTCHLI	PGVAESVATC	${\tt HFNHSSKTFM}$	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	${\tt HFSGTESETH}$	TNQAFEISLY	GTVAESENIP	FTLPEVSTNK	TYSFLIYTEV	DIGELLMLKL	KWKSDSYFSW
CDMMCCDCEN	TOKIDUKAGE	TOKKUTECCD	EKNCHI OKCK	VDVALLARCHD	KGIMKKGG		

Source

E. coli

SDS-PAGE gel



- 14% SDS-PAGE separation of Human LPL
- 1. M.W. marker 14, 21, 31, 45, 66, 97 kDa
- 2. reduced and boiled sample, 5µg / lane
- 3. non-reduced and non-boiled sample, 5µg / lane

Formulation

Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 50mM Acetate beffer, pH=4

Reconstitution

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.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality Control Test

BCA to determine quantity of the protein. SDS PAGE to determine purity of the protein. LAL TEST to determine endotoxin level

Applications

Western blotting

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