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32-2512: LPL, HEK Recombinant Protein

Alternative Name : Lipoprotein lipase,LPL,LIPD,HDLCQ11.

Description

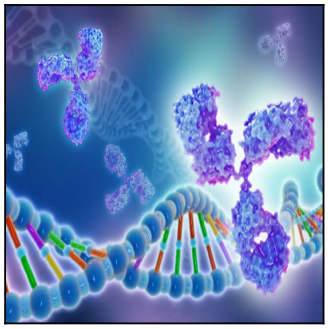
Source : HEK293 (Human Embryonic Kidney cell line). The Recombinant Human LPL produced in HEK293 cell line has a molecular mass of 51.8kDa containing 461 amino acid residues of the human LPL (Ala28-Gly475, variant Asn > Ser318) and fused to a 13 a.a. Flag-tag at N-terminus. LPL is a lipoprotein lipase, 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, 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.

Product Info

Amount :	10 µg
Content :	LPL was filtered (0.4µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.
Storage condition :	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.
Amino Acid :	HVDYKDDDDK PAGADQRRDF IDIESKFALR TPEDTAEDTC HLIPGVAESV ATCHFNHSSK TFMVIHGWTV TGMYESWVPK ADQRRDF IDIESKFALR TPEDTAEDTC HLIPGVAESV ATCHFNHSSK TFMVIHGWTV TGMYESWVPK LVAALYKREP DSNVIVVDWL SRAQEHYPVS AGYTKLVGQD VARFINWMEE EFNYPLDNVH LLGYSLGAHA AGIAGSLTNK KVNRITGLDP AGPNFEYAEA PSRLSPDDAD FVDVLHTFTR GSPGRSIGIQ KPVGHVDIYP NGGTFQPGCN IGEAIRVIAE RGLGDVDQLV KCSHERSIHL FIDSLLNEEN PSKAYRCSSK EAFEKGLCLS CRKNRCNNLG YEISKVRAKR SSKMYLKTRS QMPYKVFHYQ VKIHFSGTES ETHTNQAFEI SLYGTVAESE NIPFTLPEVS TNKTYSFLIY TEVDIGELLM LKLKWKSDSY FSWSDWWSSP GFAIQKIRVK AGETQKKVIF CSREKVSHLQ KGKAPAVFVK CHDKSLNKKS G.

Application Note

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.



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