

Recombinant Human Lecithin-Cholesterol Acyltransferase, Flag-tagged

Cat. No. LCAT-1363H Lot. No. (See product label)

SPECIFICATION

Product Overview	LCAT Human Recombinant produced in HEK is a single, glycosylated, polypeptide chain containing 429 amino acids (25-440) which includes a 13 amino acid Flag Tag fused at N-terminus and having a total molecular mass of 48.5 kDa. LCAT Human Recombinant is purified by proprietary chromatographic techniques.
Species	Human
Source	Human
ProteinLength	25-440 a.a.
Description	LCAT is an extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. LCAT is a essential enzyme in the extracellular metabolism of plasma lipoproteins.
Form	The LCAT protein was lyophilized from 0.4um filtered solution at a concentration of 0.5mg/ml containing 20mM Tris buffer, and 50mM NaCl, pH 7.5.
Physical Appearance	Filtered White lyophilized (freeze-dried) powder.
Solubility	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. LCAT HEK is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Amino acid sequence

HVDYKDDDDK PAGFWLLNVL FPPHTTPKAE LSNHTRPVIL VPGCLGNQLE
 AKLDKPDVVN WMCYRKTEDE FTIWLDLNMF LPLGVDCWID NTRVVYNRSS
 GLVSNAPGVQ IRVPGFGKTY SVEYLDSSKL AGYLHTLVQN LVNNGYVRDE
 TVRAAPYDWR LEPPGQEEYY RKLGLVEEM HAAYGKPVFL IGHSGLCLHL
 LYFLLRQPQA WKDRFIDGFI SLGAPWGGSI KPMLVLASGD NQGIPIMSSI
 KLKEEQRITT TSPWMFPSRM AWPEDHVFIS TPSFNVTGRD FQRFADLHF
 EEGWYMWLQS RDLLAGLPAP GVEVYCLYGV GLPTPRTYIY DHGFPYTDPV
 GVLIEDGDDT VATRSTELCG LWQGRQPQPV HLLPLHGIQH LNMVFSNLTL
 EHINAILLGA YRQGPPASPT ASPEPPPE

Storage

Lyophilized LCAT although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LCAT should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name LCAT lecithin-cholesterol acyltransferase [Homo sapiens]

Official Symbol LCAT

Synonyms LCAT; lecithin-cholesterol acyltransferase; EC 2.3.1.43; Phospholipid-cholesterol acyltransferase

Gene ID 3931

mRNA Refseq NM_000229

Protein Refseq NP_000220

MIM 606967

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UniProt ID	P04180
Chromosome Location	16q22.1
Pathway	Glycerophospholipid metabolism; Metabolism of lipids and lipoproteins
Function	acyltransferase activity; apolipoprotein A-I binding; phosphatidylcholine-sterol O-acyltransferase activity; phospholipase A2 activity; transferase activity; protein binding

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