

Recombinant Human LCAT, Flag tagged

Cat. No. LCAT-8326H **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 13 amino acid Flag Tag fused at N-terminus and having total molecular mass of 48.5 kDa. LCAT Human Recombinant is purified by chromatographic techniques.
Species	Human
Source	HEK293
ProteinLength	25-440 a.a.
Description	This gene encodes the extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. Mutations in this gene have been found to cause fish-eye disease as well as LCAT deficiency.
Form	The LCAT protein was lyophilized from 0.4 um filtered solution at concentration of 0.5mg/ml containing 20 mM Tris buffer, and 50mM NaCl, pH 7.5.
AA Sequence	HVDYKDDDDK PAGFWLLNVL FPPHTTPKAE LSNHTRPVIL VPGCLGNQLE AKLDKPDVVN WMCYRKTEDF FTIWLDLNMF LPLGVDCWID NTRVVYNRSS GLVSNAPGVQ IRVPGFGKTY SVEYLDSSKL AGYLHTLVQN LVNNGYVRDE TVRAAPYDWR LEPGQQEEYY RKLGLVEEM HAAYGKPVFL IGHSLGCLHL LYFLLRQPQA WKDRFIDGFI SLGAPWGGSi KPMLVLASGD NQGIPIMSSI KLKEEQRITT TSPWMFPSRM AWPEDHVFIS TPSFNYTG RD FQRFFADLHF

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EEGWYMWLQS RDLLAGLPAP GVEVYCLYGV GLPTPRTYIY DHGFPYTDPV
 GVLYEDGDDT VATRSTELCG LWQGRQPQPV HLLPLHGIQH LNMVFSNLTL
 EHINAILLGA YRQGPPASPT ASPEPPPE

Notes

For research use only.

Storage

Lyophilized LCAT although stable at room temperature for 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 carrier.

Reconstitution

It is recommended to reconstitute the lyophilized Rat Carboxypeptidase-B in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name

LCAT lecithin-cholesterol acyltransferase [Homo sapiens]

Official Symbol

LCAT

Synonyms

LCAT; lecithin-cholesterol acyltransferase; phosphatidylcholine-sterol acyltransferase; phospholipid-cholesterol acyltransferase;

Gene ID

3931

mRNA Refseq

NM_000229

Protein Refseq

NP_000220

MIM

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UniProt ID	P04180
Chromosome Location	16q22.1
Pathway	Glycerophospholipid metabolism, organism-specific biosystem; Glycerophospholipid metabolism, conserved biosystem; HDL-mediated lipid transport, organism-specific biosystem; Lipid digestion, mobilization, and transport, organism-specific biosystem; Lipoprotein metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem;
Function	apolipoprotein A-I binding; phosphatidylcholine-sterol O-acyltransferase activity; phosphatidylcholine-sterol O-acyltransferase activity; phospholipase A2 activity; protein binding; transferase activity, transferring acyl groups;