

Recombinant Human LCAT Protein (Phe25-Glu440), His tagged

Cat. No. LCAT-2380H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human LCAT (Phe25-Glu440) protein fused with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Phe25-Glu440
Description	Lecithin:cholesterol acyltransferase (LCAT) is the sole enzyme that esterifies cholesterol in plasma, thus determining the maturation of high-density lipoproteins. Because it maintains an unesterified cholesterol gradient between peripheral cells and extracellular acceptors, for a long time, LCAT has been considered as a key enzyme in reverse cholesterol transport. Lecithin cholesterol acyltransferase (LCAT) plays a pivotal role in HDL metabolism. LCAT is intimately involved in HDL maturation and is a key component of the reverse cholesterol transport (RCT) pathway which removes excess cholesterol molecules from the peripheral tissues to the liver for excretion. LCAT may also modify oxidative and inflammatory processes, as supported by an inverse relationship with HDL antioxidative functionality and a positive relationship with high-sensitivity C-reactive protein (hsCRP).
Molecular Mass	47.14 kDa
Purity	>90 % as determined by SDS-PAGE.

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Notes	For research use only.
Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 centigrade for one week. Store at -20 to -80 centigrade for twelve months from the date of receipt.
Storage Buffer	Supplied as solution form in PBS pH 7.5 or lyophilized from PBS pH 7.5.
Reconstitution	Reconstitute in sterile water for a stock solution.
Shipping	In general, proteins are provided as lyophilized powder/frozen liquid. They are shipped out with dry ice/blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	LCAT lecithin-cholesterol acyltransferase [Homo sapiens (human)]
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	606967
UniProt ID	P04180

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