

# Human LCAT Protein

Cat. No. LAT-HM101



## Description

<b>Source</b>	Recombinant Human LCAT Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Phe25-Glu440.
<b>Accession</b>	P04180
<b>Molecular Weight</b>	The protein has a predicted MW of 48.2 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Lecithin:cholesterol acyltransferase (LCAT) is the only enzyme capable of esterifying 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.

## Assay Data

### Bis-Tris PAGE

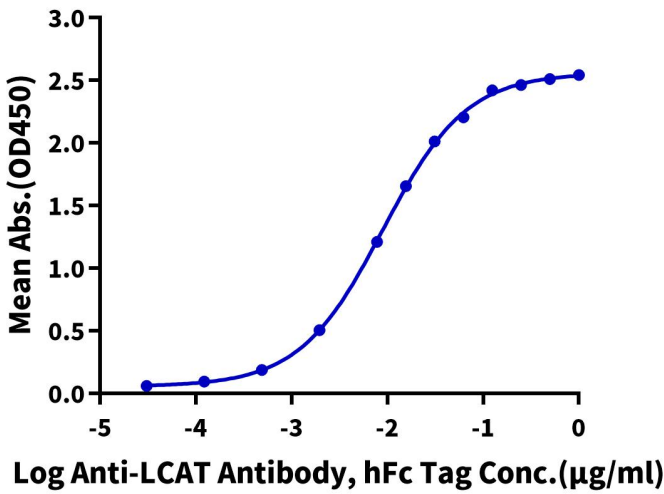


Human LCAT on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data

Human LCAT, His Tag ELISA

0.1µg Human LCAT, His Tag Per Well



Immobilized Human LCAT, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Anti-LCAT Antibody, hFc Tag with the EC50 of 9.0ng/ml determined by ELISA.