

Human LCAT Protein

Cat. No. LAT-HM101

Description

Source	Recombinant Human LCAT Protein is expressed from Expi293 with His tag at the C-terminal. It contains Phe25-Glu440.
Accession	P04180
Molecular Weight	The protein has a predicted MW of 48.2 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

Formulation	Supplied as 0.22 μm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C . Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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

Tris-Bis PAGE

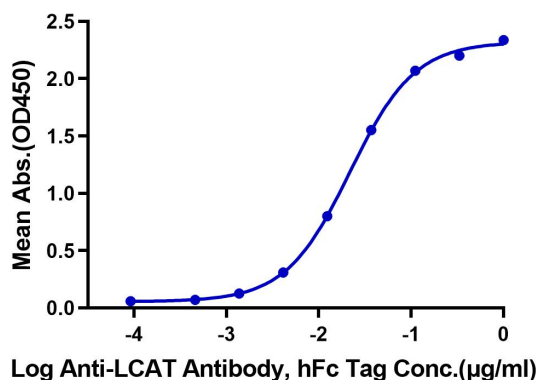


Human LCAT on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human LCAT, His Tag ELISA

0.05 μg Human LCAT, His Tag Per Well



Immobilized Human LCAT, His Tag at 0.5 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{Well}$) on the plate. Dose response curve for Anti-LCAT Antibody, hFc Tag with the EC50 of 21.8ng/ml determined by ELISA.