Human LCAT Protein

Cat. No. LAT-HM101

Description

Source	Recombinant Human LCAT Protein is expressed from HEK293 with His tag at the C-Terminus.
	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

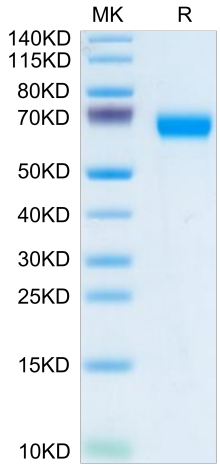
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days 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

Tris-Bis PAGE



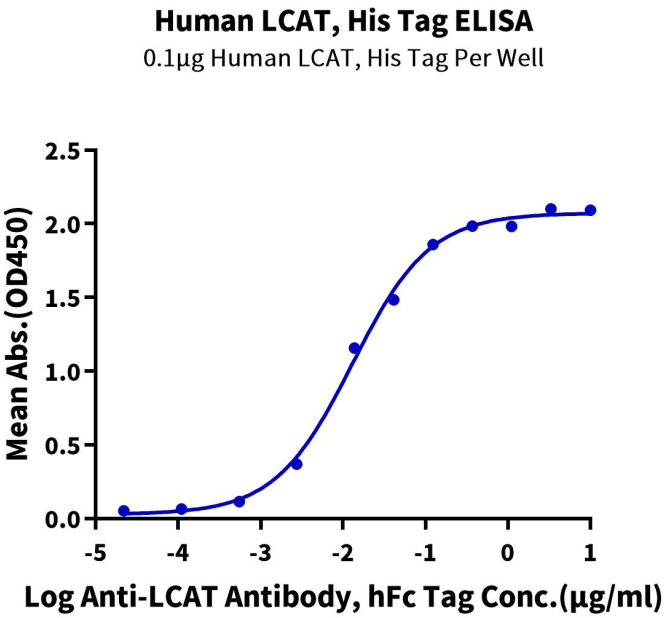
Human LCAT on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human LCAT Protein

Cat. No. LAT-HM101

Assay Data



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 13.0ng/ml determined by ELISA.