Recombinant Human LCAT Protein

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Catalog No.: RP03513 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 3931 P04180

Tags C-His

Synonyms

Phosphatidylcholine-sterol acyltransferase;1-alkyl-2-acetylglycerophosphocholine esterase;LCAT

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by Bis-

Tris PAGE

Calculated MW Observed MW

48.2 kDa 65-70 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

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 $100~\mu g/ml$ is recommended. Dissolve the lyophilized protein in distilled water.

Contact

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Background

Recombinant Human LCAT Protein 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.

Basic Information

Description

Recombinant Human LCAT Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Phe25-Glu440) of Human LCAT (Accession #NP 000220.1) fused with His tag at the C-terminus.

Bio-Activity

Recombinant Human LCAT Protein 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.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

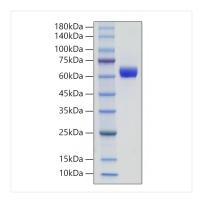
After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week.

Avoid repeated freeze/thaw cycles.

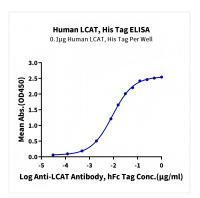
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human LCAT Protein was determined by Bis-Tris PAGE under reducing conditions with Coomassie Blue.



Recombinant Human LCAT Protein at $1\mu g/ml$ (100 μ l/Well) on the plate. Dose response curve for Anti-LCAT Antibody, hFc Tag with the EC50 of 9.0ng/ml determined by ELISA.