

LCAT Protein, Human, Recombinant (His)

General Information

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| Synonyms: | lecithin-cholesterol acyltransferase |
| Protein Construction: | Phe25-Glu440 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P04180 |
| Molecular Weight: | 48.2 kDa (Predicted); 65-70 kDa (Due to glycosylation) |

QC Testing

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| Biological Activity: | Immobilized Human LCAT, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-LCAT Antibody, hFc Tag with the EC50 of 13.0 ng/ml determined by ELISA. |
| Purity: | > 95% as determined by Tris-Bis PAGE |
| Endotoxin: | < 1.0 EU/µg of the protein as determined by the LAL method. |
| Formulation: | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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.

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