



## RayBiotech, Inc.

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### Certificate of Analysis and Data Sheet

## Recombinant Human Lecithin-Cholesterol Acyltransferase

**Catalog No.**  
228-11013

**Source:**  
*Escherichia Coli.*

### **Synonyms:**

Phosphatidylcholine-sterol acyltransferase, Lecithin-cholesterol acyltransferase, Phospholipid-cholesterol acyltransferase, LCAT.

### **Introduction:**

LCAT is an extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. LCAT is an essential enzyme in the extracellular metabolism of plasma lipoproteins.

### **Description:**

LCAT Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 426 amino acids (25-440) which includes a 10 amino acid His Tag fused at N-terminus and having a total molecular mass of 48.3 kDa.

LCAT Human Recombinant is purified by proprietary chromatographic techniques.

### **Source:**

*Escherichia Coli.*

### **Physical Appearance:**

Filtered White Lyophilized (freeze-dried) powder.

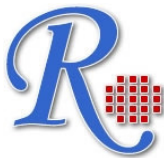
### **Formulation:**

The LCAT protein was lyophilized from 0.4µm filtered solution at a concentration of 0.5mg/ml containing 0.05M Acetate Buffer pH-4.0.

### **Solubility:**

Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### ***Stability:***

Lyophilized LCAT although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LCAT should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Please prevent freeze-thaw cycles.**

### ***Purity:***

Greater than 95.0% as determined by SDS-PAGE.

### ***Amino acid sequence:***

MKHHHHHHAS FWLLNVLFPP HTTPKAELSN HTRPVILVPG CLGNQLEAKL DKPDVVNWMC  
YRKTEDEFTI WLDLNMFLPL GVDCWIDNTR VVYNRSSGLV SNAPGVQIRV PGFGKTYSTVE  
YLDSSKLAGY LHTLVQNLVN NGYVRDETVR AAPYDWRLEP GQQEYYRKL AGLVEEMHAA  
YGKPVFLIGH SLGCLHLLYF LLRQPQAWKD RFIDGFISLG APWGGSIKPM LVLASGDNQG  
IPIMSSIKLK EEQRITTTSP WMFPSRMAWP EDHVFISTPS FNYTGRDFQR FFADLHFEEG  
WYMWLQSRDL LAGLPAPGVE VYCLYGVGLP TPRTYIYDHG FPYTDPVGV L YEDGDDTVAT  
RSTELCGLWQ GRQPQPVHLL PLHGIQHLNM VFSNLTLEHI NAILLGAYRQ GPPASPTASP  
EPPPE .

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