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**Product Data Sheet**


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Product Name: LCAT Human, HEK

Cat. No.: GP21864

Batch No.: 1

**Product Data**

Purity	>98%	Source	Human Embryonic Kidney 293 cells
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Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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Synonyms Phosphatidylcholine-sterol acyltransferase; Lecithin-cholesterol acyltransferase; Phospholipid-cholesterol acyltransferase; LCAT.

Amino Acid Sequence  
 HV DYK D D D D K P A G F W L L N V L F P P H T T P K A E L S N H T R P V I L V P G C L G N Q L E  
 A K L D K P D V V N W M C Y R K T E D F F T I W L D L N M F L P L G V D C W I D N T R V V Y N R S S  
 G L V S N A P G V Q I R V P G F G K T Y S V E Y L D S S K L A G Y L H T L V Q N L V N N G Y V R D E  
 T V R A A P Y D W R L E P G Q Q E E Y Y R K L A G L V E E M H A A Y G K P V F L I G H S L G C L H L  
 L Y F L L R Q P Q A W K D R F I D G F I S L G A P W G G S I K P M L V L A S G D N Q G I P I M S S I  
 K L K E E Q R I T T T S P W M F P S R M A W P E D H V F I S T P S F N Y T G R D F Q R F F A D L H F  
 E E G W Y M W L Q S R D L L A G L P A P G V E V Y C L Y G V G L P T P R T Y I Y D H G F P Y T D P V  
 G V L Y E D G D D T V A T R S T E L C G L W Q G R Q P Q P V H L L P L H G I Q H L N M V F S N L T L  
 E H I N A I L L G A Y R Q G P P A S P T A S P E P P P P E

Solubility Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. LCAT HEK is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Formulation The LCAT protein was lyophilized from 0.4um filtered solution at a concentration of 0.5mg/ml containing 20mM Tris buffer, and 50mM NaCl, pH 7.5.

**Introduction**

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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized LCAT although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution LCAT should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

LCAT Human Recombinant produced in HEK is a single, glycosylated, polypeptide chain containing 429 amino acids (25-440) which includes a 13 amino acid Flag Tag fused at N-terminus and having a total molecular mass of 48.5 kDa. LCAT Human Recombinant is purified by proprietary chromatographic techniques.

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