

Datasheet for ABIN6239826  
**LCAT Protein (AA 41-210) (His tag)**[Go to Product page](#)

## 1 Image

## Overview

Quantity:	50 µg
Target:	LCAT
Protein Characteristics:	AA 41-210
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This LCAT protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

## Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %

**Biological Activity Comment:** LCAT (Phosphatidylcholine-sterol acyltransferase) is an enzyme in the extracellular metabolism of plasma lipoproteins, which converts cholesterol and phosphatidylcholines (lecithins) to cholesteryl esters and lysophosphatidylcholines. It is reported that APOA1 (Apolipoprotein A-I) acts as a cofactor for the LCAT. Thus, a binding ELISA assay was conducted to detect the association of LCAT with APOA1. Briefly, recombinant rat LCAT were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100µL were then transferred to APOA1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-LCAT pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µL stop solution to the

## Product Details

wells and read at 450nm immediately. The binding activity of LCAT with APOA1 was shown in Figure 1 and this effect was in a dose dependent manner The binding activity of LCAT with APOA1.

## Target Details

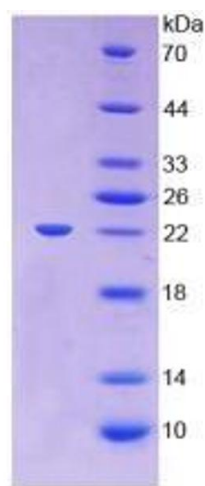
Target:	LCAT
Alternative Name:	Lecithin Cholesterol Acyltransferase (LCAT) ( <a href="#">LCAT Products</a> )
Background:	Alternative Names: phosphatidylcholine-sterol O-acyltransferase, Phospholipid-cholesterol acyltransferase
Molecular Weight:	22kDa
UniProt:	<a href="#">P16301</a>
Pathways:	<a href="#">Lipid Metabolism</a>

## Application Details

Application Notes:	Isoelectric Point: 6.3
Restrictions:	For Research Use only

## Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4, containing 0.01 % SKL, 1 mM DTT, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



SDS-PAGE

**Image 1.** Figure. SDS-PAGE; Sample: Active recombinant LCAT, Mouse.