# Active Recombinant Mouse Lcat protein, His-tagged

**Cat. No.** Lcat-600M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Active Recombinant Mouse Lcat protein(P16301)(41-210 aa), fused with N-terminal His tag, was expressed in E.coli. |
| **Species** | Mouse |
| **Source** | E.coli |
| **ProteinLength** | 41-210 aa |
| **Form** | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300. |
| **Bio-activity** | 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 100uL 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 50µ stop solution to the wells and read at 450nm immediately. The binding activity of LCAT with APOA1 was shown and this effect was in a dose dependent |

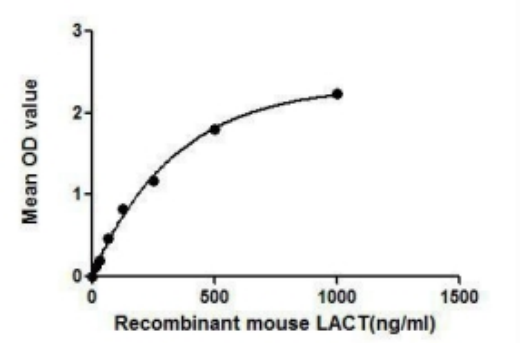
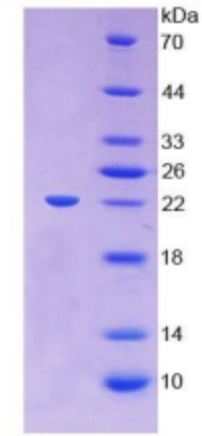
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| | manner. |
| **Molecular Mass** | 20.7kDa |
| **Purity** | > 90% |
| **Storage** | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| **Reconstitution** | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex. |

## GENE INFORMATION

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| **Gene Name** | Lcat lecithin cholesterol acyltransferase [ Mus musculus ] |
| **Official Symbol** | Lcat |
| **Synonyms** | LCAT; lecithin cholesterol acyltransferase; phosphatidylcholine-sterol acyltransferase; phospholipid-cholesterol acyltransferase; lecithin-cholesterol acyltransferase Lcat; AI046659; D8Wsu61e; |
| **Gene ID** | 16816 |
| **mRNA Refseq** | NM_008490 |
| **Protein Refseq** | NP_032516 |

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| **Activity** |  |
| **SDS-PAGE** |  |

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