

Active Recombinant Mouse Lcat protein, His-tagged

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

SPECIFICATION

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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

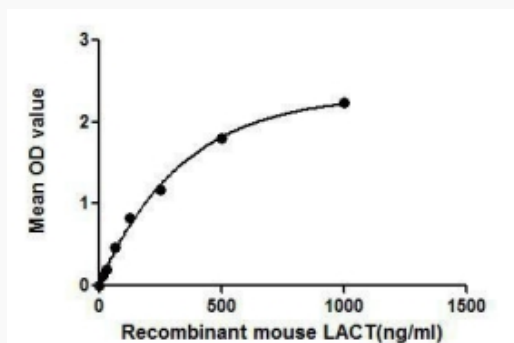
Gene Name	Lcat lecithin cholesterol acyltransferase [Mus musculus]
Official Symbol	Lcat
Synonyms	LCAT; lecithin cholesterol acyltransferase; phosphatidylcholine-sterol acyltransferase; phospholipid-cholesterol acyltransferase; lecithin-cholesterol acyltransferase Lcat; AI046659; D8Wsu61e;
Gene ID	16816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

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Activity



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