

## Product datasheet for **TP727015**

### LCAT Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Lecithin-cholesterol acyltransferase/LCAT (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Phe25-Glu440
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 50mM Acetate Buffer pH-4.0.
Note:	Recombinant Human Lecithin-cholesterol acyltransferase is produced by our Mammalian expression system and the target gene encoding Phe25-Glu440 is expressed with a 6His tag at the C-terminus.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	3931
UniProt ID:	<a href="#">P04180</a>
Synonyms:	Phosphatidylcholine-sterol acyltransferase; also named Lecithin-cholesterol acyltransferase; Phospholipid-cholesterol acyltransferase and LACT; is an extracellular cholesterol esterifying enzyme which belongs to the AB hydrolase superfamily.
Summary:	Lipase family. The gene encoding this protein is expressed mainly in brain, liver and testes, followed by secreting into plasma and cerebral spinal fluid. The esterification of cholesterol is required for cholesterol transport. LCAT is a central enzyme in the extracellular metabolism of plasma lipoproteins. Defects in LCAT are the cause of lecithin-cholesterol acyltransferase deficiency (LCATD) and a cause of fish-eye disease (FED).
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Glycerophospholipid metabolism



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