Recombinant Human LCAT Protein (His Tag)

Catalog No. PKSH032685

Note: Centrifuge before opening to ensure complete recovery of vial contents.

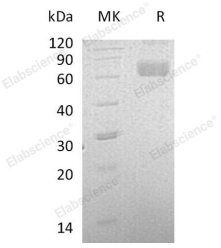
Description

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.
Species	Human
Expression Host	HEK293 Cells
Sequence	Phe25-Glu440
Accession	P04180
Calculated Molecular Weight	48.1 kDa
Observed molecular weight	66 kDa
Tag	C-His
Bioactivity	Not validated for activity

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 μm filtered solution of 4mM HCl. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

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Background

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).

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