



Product Datasheet

Product Name	Lecithin-Cholesterol Acyltransferase Human Recombinant
Cata No	CB501389
Source	<i>Escherichia Coli.</i>
Synonyms	Phosphatidylcholine-sterol acyltransferase, Lecithin-cholesterol acyltransferase, Phospholipid-cholesterol acyltransferase, LCAT.

Description

LCAT is an extracellular cholesterol esterifying enzyme, lecithin-cholesterol acyltransferase. The esterification of cholesterol is required for cholesterol transport. LCAT is an essential enzyme in the extracellular metabolism of plasma lipoproteins. LCAT Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 426 amino acids (25-440) which includes a 10 amino acid His Tag fused at N-terminus and having a total molecular mass of 48.3 kDa. LCAT Human Recombinant is purified by proprietary chromatographic techniques.

Physical Appearance

Filtered White Lyophilized (freeze-dried) powder.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The LCAT protein was lyophilized from 0.4µm filtered solution at a concentration of 0.5mg/ml containing 0.05M Acetate Buffer pH-4.0.

Reconstitution

Add 0.1M Acetate buffer pH4 to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. For conversion into higher pH value, we recommend intensive dilution by relevant buffer to a concentration of 10µg/mL. In higher concentrations

the solubility of this antigen is limited. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Lyophilized LCAT although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution LCAT should be stored at 4°C between 2-7 days and for future use below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MKHHHHHHAS FWLLNVLFPP HTTPKAELSN
HTRPVILVPG CLGNQLEAKL DKPDVVNWMC
YRKTEFFFTI WLDLNMFLPL GVDCWIDNTR
VVYNRSSGLV SNAPGVQIRV PGFGKTYSTVE
YLDSSKLAGY LHTLVQNLVN NGYVRDETVR
AAPYDWRLEP GQQEEYYRKL AGLVEEMHAA
YGKPVFLIGH SLGCLHLLYF LLRQPQAWKD
RFIDGFISLG APWGGSIKPM LVLASGDNQG
IPIMSSIKLK EEQRITTTSP WMFPSRMAMP
EDHVFISTPS FNYTGRDFQR FFADLHFEEG
WYMWLQSRDL LAGLPAPGVE VYCLYGVGLP
TPRTYIYDHG FPYTDPVGV L YEDGDDTVAT
RSTELCGLWQ GRQPQPVHLL PLHGIQHLNM
VFSNLTLEHI NAILLGAYRQ
GPPASPTASPEPPPPE

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