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32-2510: LPCAT1 Recombinant Protein

Alternative Name :	AYTL2,lpcat,PFAAP3,Lysophosphatidylcholine acyltransferase 1,LPC acyltransferase 1,LPCAT-1,LysoPC acyltransferase 1,1-acylglycerophosphocholine O-acyltransferase,1-alkylglycerophosphocholine O-acetyltransferase

Description

Source : Escherichia Coli. LPCAT1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 479 amino acids (79-534a.a) and having a molecular mass of 53.4kDa. LPCAT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Lysophosphatidylcholine acyltransferase 1 (LPCAT1) is a part of the 1-acyl-sn-glycerol-3-phosphate acyltransferase family. LPCAT1 is a key enzyme for remodeling phospholipids, including phosphatidylcholine. LPCAT1 possesses both acyltransferase and acetyltransferase activities and also mediates the conversion of 1-acyl-sn-glycero-3-phosphocholine (LPC) into phosphatidylcholine (PC). LPCAT1 presents a clear preference for saturated fatty acyl-CoAs, and 1-myristoyl or 1-palmitoyl LPC as acyl donors and acceptors, respectively. LPCAT1 synthesizes phosphatidylcholine in pulmonary surfactant and therefore playing an important role in respiratory physiology.

Product Info

Amount :	10 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The LPCAT1 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1M Urea and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSSAEKEPE QPPALWRKVV DFLLKAIMRT MWFAGGFHRV AVKGRQALPT EAAILTLAPH SSYFDAIPVT MTMSSIVMKA ESRDIPIWGT LIQYIRPVFV SRSDQDSRRK TVEEIKRRAQ SNGKWPQIMI FPEGTCTNRT CLITFKPGAF IPGAPVQPVV LRYPNKLDTI TWTWQGPGAL EILWLTLCQF HNQVEIEFLP VYSPSEEEKR NPALYASNVR RVMAEALGVS VTDYTFEDCQ LALAEGQLRL PADTCLLEFA RLVRGLGLKP EKLEKDLDRY SERARMKGGE KIGIAEFAAS LEVPVSDLLE DMFSLFDESG SGEVDLRECV VALSVVCRPA RTLDTIQLAF KMYGAQEDGS VGEGDLSCIL KTALGVAELT VTDLFRAIDQ EEKGKITFAD FHRFAEMYPA FAEEYLYPDQ THFESCAETS PAPIPNGFCA DFSPENSDAG RKPVRKKLD.