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LCAT, 25-440aa, Human, His tag, E.coli

产品货号: TP02786

第三版

别名: Phosphatidylcholine-sterol acyltransferase, lecithin-cholesterol acyltransferase, phosphatidylcholine-sterol O-acyltransferase

描述: LCAT (lecithin-cholesterol acyltransferase), also known as phosphatidylcholine-sterol O-acyltransferase, belongs to the AB hydrolase superfamily. LCAT is responsible for the esterification of the free cholesterol of plasma lipoproteins. This enzyme is converts free cholesterol into cholesteryl ester (a more hydrophobic form of cholesterol), which is then sequestered into the core of a lipoprotein particle, eventually making the newly synthesized HDL spherical and forcing the reaction to become unidirectional since the particles are removed from the surface. It is central enzyme in the extracellular metabolism of plasma lipoproteins and required for remodeling high-density lipoprotein particles into their spherical forms. Recombinant human LCAT protein, fused to His-tag at N-terminus, was expressed in E.coli.

配方: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol

分子量: 49.8kDa (441aa)

序列:

MGSSHHHHHSSGLVPRGSHMGSHMFWLLNVLFPPHTTPKAELSNHTRPVILVPGCLGNQLEAKLDKPDVVNWMCYR  
KTEDFFTIWLDLNMFLPLGVDCWIDNTRVVYNRSSGLVSNAPGVQIRVPGFGKTYSEYLDSSKLAGYLHTLVQNLVNNG  
YVRDETVRAAPYDWRLEPGQQEEYYRKLGLVEEMHAAYGKPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGFISLGAP  
WGGSIKPLMLVLSAGDNQGIPIMSSIKLKEEQRITTTSPWMFPSRMAWPEDHVFISTPSFNVTGRDFQRFFADLHFEEGWYM  
WLQSRDLLAGLPAPGVEVYCLYGVGLPTPRTYIYDHGFYTDVPGVLYEDGDDTVATRSTELCGLWQGRQPQPVHLLPL  
HGIQHLMVFSNLTLEHINAILLGAYRQGPPASPTASPEPPPE

纯度: > 95% by HPLC

浓度: 0.5 mg/ml (determined by Bradford assay)

内毒素: <1.0 EU per 1 ug of protein (determined by LAL method)

存储: +4 ° C 保存 (1-2 周). 长期保存在 -20 ° C 或者 -70 ° C. 避免反复冻融.