

# Recombinant human Phosphatidylcholine-sterol acyltransferase

Catalog No: #AP72150

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Package Size: #AP72150-1 20ug #AP72150-2 100ug #AP72150-3 1mg

## Description

Product Name	Recombinant human Phosphatidylcholine-sterol acyltransferase
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:25-433aaSequence Info:Partial
Other Names	Lecithin-cholesterol acyltransferasePhospholipid-cholesterol acyltransferase
Accession No.	P04180
Uniprot	P04180
GeneID	3931;
Calculated MW	50.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	FWLLNVLFPPHTTPKAELSNHTRPVILVPGCLGNQLEAKLDKPDVNVWMCYRKTEFFFTIWLDLNMFLPLGVD CWIDNTRVYVNRSSGLVSNAPGVQIRVPGFGKTYVVEYLDSSKLAGYLHTLVQNLVNNGYVRDETVAAPYD WRLEPGQQEEYRKLGLVEEMHAAYGKPVFLIGHSLGCLHLLYFLLRQPQAWKDRFIDGFISLGAPWGGSIK PMLVLASGDNQGIPIMSSIKLKEEQRITTTSPWMFPSRMAWPEDHVFISTPSFNNTGRDFQRFFADLHFEEGW YMWLQSRDLLAGLPAPGVEVYCLYGVGLPTPRTYIYDHGFYTPDVGVLVEDGDDTVATRSTELCGLWQGR QPQPVHLLPLHGIQHLNMVFSNLTLEHINAILLGAYRQGPPASPTAS
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Central enzyme in the Extracellular domain metabolism of plasma lipoproteins. Synthesized mainly in the liver and secreted into plasma where it converts cholesterol and phosphatidylcholines (lecithins) to cholesteryl esters and lysophosphatidylcholines on the surface of high and low density lipoproteins (HDLs and LDLs). The cholesterol ester is then transported back to the liver. Has a preference for plasma 16:0-18:2 or 18:0-18:2 phosphatidylcholines. Also produced in the brain by primary astrocytes, and esterifies free cholesterol on nascent APOE-containing lipoproteins secreted from glia and influences cerebral spinal fluid (CSF) APOE- and APOA1 levels. Together with APOE and the cholesterol transporter ABCA1, plays a key role in the maturation of glial-derived, nascent lipoproteins. Required for remodeling high-density lipoprotein particles into their spherical forms.

## References

Human lecithin-cholesterol acyltransferase gene complete gene sequence and sites of expression.McLean J., Wion K., Drayna D., Fielding C., Lawn R.Nucleic Acids Res. 14:9397-9406(1986)Research Topic:Metabolism

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Note: This product is for in vitro research use only