

Product Information

MemDX™ Membrane Protein Human LPCAT2 (Lysophosphatidylcholine acyltransferase 2)

Full Length

Cat. No.: **MPC4461K**

This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human LPCAT2 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

LPCAT2

Protein Length

Full length

Protein Class

Transferase

TMD

1

Sequence

MSRCAQAAEVAATVPGAGVGNVGLRPPMVPRQASFFPPPVPNPFVQQTQI
GSARRVQIVLLGIILLPIRVLLVALILLWPFAAISTVCCPEKLTHPIT
GWRRKITQTALKFLGRAMFFSMGFIVAVKGIASPLEAPVFVAAPHSTFF
DGIACVVAGLPSMVS RNENAQVPLIGRLLRAVQPVLVSRVDPDSRKN TIN
EIIKRTTSGGEWPQILVFPEGTCTNRSCLITFKPGAFIPGVPVQPVLLRY
PNKLDTVTWTWQGYTFIQLCMLTFCQLFTKVEVEFMPVQVPNDEEKNDPV
LFANKVRNLMAEALGIPVTDHTYEDCRLMISAGQLTLPMEAGLVEFTKIS
RKLKLDWDGVRKHLDEYASIASSKGGRIGIEEFAKYLKLPVSDVLRQLF
ALFDRNHGSDIFREYVIGLAVLCNPSNTEEIIQVAFKLFVDEDEDGYITE
EEFSTILQASLGVPDLVDVSGLFKEIAQGDSISYEEFKSFALKHPEYAKIF
TTYLDLQTCHVFLPKEVQTPSTASNKVSPEKHEESTSDKKDD

Product Description

Expression Systems

HEK293

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target**Target Protein**

LPCAT2

Full Name

Lysophosphatidylcholine acyltransferase 2

Introduction

This gene encodes a member of the lysophospholipid acyltransferase family. The encoded enzyme may function in two ways: to catalyze the biosynthesis of platelet-activating factor (1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) from 1-O-alkyl-sn-glycero-3-phosphocholine, and to catalyze the synthesis of glycerophospholipid precursors from arachidonyl-CoA and lysophosphatidylcholine. The encoded protein may function in membrane biogenesis and production of platelet-activating factor in inflammatory cells. The enzyme may localize to the endoplasmic reticulum and the Golgi.

Alternative Names

LPCAT2; AYTL1; AGPAT11; LysoPAFAT; 1-AGP acyltransferase 11; 1-AGPAT 11; 1-acylglycerol-3-phosphate O-acyltransferase 11; 1-acylglycerophosphocholine O-acyltransferase; 1-alkenylglycerophosphocholine O-acyltransferase; 1-alkylglycerophosphocholine O-acetyltransferase; LPAAT-alpha; LPC acyltransferase 2; LPCAT-2; acetyl-CoA:lyso-PAF acetyltransferase; acetyl-CoA:lyso-platelet-activating factor acetyltransferase; acyl-CoA:lysophosphatidylcholine acyltransferase 2; acyltransferase-like 1; lyso-PAF acetyltransferase; lyso-platelet-activating factor (PAF) acetyltransferase; lysoPC acyltransferase 2; lysophosphatidic acid acyltransferase alpha; Lysophosphatidylcholine acyltransferase 2

Gene ID

[54947](#)

UniProt ID

[Q7L5N7](#)