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# Product Information

## MemDX™ Membrane Protein Human AGPAT5 (1-acylglycerol-3-phosphate O-acyltransferase 5) Full Length

Cat. No.: **MPC3521K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human AGPAT5 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**
AGPAT5

**Protein Length**
Full length

**Protein Class**
Transferase

**TMD**
3

**Sequence**
MLLSLVLHTYSMRYLLPSVVLLGTAPTYVLAWGVWRLLSAFLPARFYQAL
DDRLYCVYQSMVLFFFENYTGVQILLYGDLPKNKENIIYLANHQSTVDWI
VADILAIRQNALGHVRYVLKEGLKWLPLYGCYFAQHGGIYVKRSAKFNEK
EMRNKLQSYVDAGTPMYLVIFPEGTRYNPEQTKVLSASQAFAAQRGLAVL
KHVLTPRIKATHVAFDCMKNYLDAIYDVTVVYEGKDDGGQRRESPTMTEF
LCKECPKIHIHIDRIDKKDVPEEQEHMRRWLHERFEIKDKMLIEFYESPD
PERRKRFPGKSVNSKLSIKKTLPSMLILSGLTAGMLMTDAGRKLYVNTWI
YGTLLGCLWVTIKA

## 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**

AGPAT5

**Full Name**

1-acylglycerol-3-phosphate O-acyltransferase 5

**Introduction**

This gene encodes a member of the 1-acylglycerol-3-phosphate O-acyltransferase family. This integral membrane protein converts lysophosphatidic acid to phosphatidic acid, the second step in de novo phospholipid biosynthesis. A pseudogene of this gene is present on the Y chromosome.

**Alternative Names**

AGPAT5; LPAATE; 1AGPAT5; 1-acyl-sn-glycerol-3-phosphate acyltransferase epsilon; 1-AGP acyltransferase 5; 1-AGPAT 5; 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon); lysophosphatidic acid acyltransferase epsilon; testicular tissue protein Li 144; 1-acylglycerol-3-phosphate O-acyltransferase 5

**Gene ID**

55326

**UniProt ID**

Q9NUQ2

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