

Product Information

MemDX™ Membrane Protein Human AWAT2 (Acyl-CoA wax alcohol acyltransferase 2) Full Length

Cat. No.: **MPC4636K**

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

This product is a made-to-order Human AWAT2 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

AWAT2

Protein Length

Full length

Protein Class

Transferase

TMD

3

Sequence

MLLPSKKDLKTALDVFAVFQWSFSALLITTTVIAVNLYLVVFTPYWPVTV
LILTWLAFDWKTPQRGGRRFTCVRHWRWLWKHYSDFPLKLLKTHDICPSR
NYILVCHPHGLFAHGWFHGFATEASGFSKIFPGITPYILTLGAFFWMPFL
REYVMSTGACSVSRSSIDFLLTHKGTGNMVIVVIGGLAECRYSLPGSSTL
VLKNRSGFVRMALQHGVPLIPAYAFGETDLYDQHIFTGGFVNRQKWFQ
SMVHIYPCAFYGRGFTKNSWGLLPYSRPVTTIVGEPLPMPKIENPSQEIV
AKYHTLYIDALRKLFDQHKTKFGISETQELEII

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**

AWAT2

Full Name

Acyl-CoA wax alcohol acyltransferase 2

Introduction

This gene encodes an enzyme belonging to the diacylglycerol acyltransferase family. This enzyme produces wax esters by the esterification of long chain (or wax) alcohols with acyl-CoA-derived fatty acids. It functions in lipid metabolism in the skin, mostly in undifferentiated peripheral sebocytes. This enzyme may also have acyl-CoA:retinol acyltransferase activities, where it catalyzes the synthesis of diacylglycerols and retinyl esters.

Alternative Names

AWAT2; WS; DC4; ARAT; MFAT; DGAT2L4; 11-cis-RE-synthase; 11-cis-specific retinyl-ester synthase; acyl-CoA retinol O-fatty-acyltransferase; diacylglycerol O-acyltransferase 2-like protein 4; diacylglycerol O-acyltransferase candidate 4; long-chain-alcohol O-fatty-acyltransferase 2; multifunctional O-acyltransferase; retinol O-fatty-acyltransferase; Acyl-CoA wax alcohol acyltransferase 2

Gene ID

[158835](#)

UniProt ID

[Q6E213](#)