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Product Information

MemDX™ Membrane Protein Human AUP1 (AUP1 lipid droplet regulating VLDL assembly factor) Full Length

Cat. No.: **MPC3484K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human AUP1 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
AUP1

Protein Length
Full length

Protein Class
Receptor

TMD
1

Sequence
MELPSGPGPERLFDSHRLPGDCFLLLVLLLYAPVGFCLLVLRLFLGIHVF
LVSCALPDSVLRRFVVRTMCAVLGLVARQEDSGLRDHSVRVLISNHVTPF
DHNIVNLLTTCSTPLLNSPPSFVCWSRGFMEMNGRGELVESLKRFCASTR
LPPTPLLLFPEEEATNGREGLLRFSSWPFSIQDVVQPLTLQVQRPLVSVT
VSDASWVSELLWSLFVPFTVYQVRWLRPVHRQLGEANEEFALRVQQLVAK
ELGQTGTRLTPADKAEHMKRQRHPRLRPQSAQSSFPPSPGPSPDVQLATL
AQRVKEVLPHVPLGVIQRDLAKTGCVDLTITNLLEGAVAFMPEDITKGTQ
SLPTASASKFPSSGPVTPQPTALTFAKSSWARQESLQERKQALYEYARRR
FTERRAQEAD

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

AUP1

Full Name

AUP1 lipid droplet regulating VLDL assembly factor

Introduction

The protein encoded this gene is involved in several pathways including quality control of misfolded proteins in the endoplasmic reticulum and lipid droplet accumulation. Lipid droplets are organelles in the cytoplasm that store neutral lipids such as cholesterol esters and trigylycerides to prevent the overabundance of free cholesterol and fatty acids in cells, but also to act as storage for other metabolic processes, such as membrane biogenesis. Reduced expression of this gene results in reduced lipid droplet clustering, a function that is dependent on ubiquitination of the protein. This protein contains multiple domains including a hydrophobic N-terminal domain, an acetyltranferase domain, a ubiquitin-binding CUE domain, and a UBE2B2-binding domain (G2BR). Alternative splicing results in multiple transcript variants.

Alternative Names

AUP1; lipid droplet-regulating VLDL assembly factor AUP1; ancient ubiquitous protein 1; AUP1 lipid droplet regulating VLDL assembly factor

Gene ID

550

UniProt ID

Q9Y679

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