

Product Information

MemDX™ Membrane Protein Human DGAT1 (Diacylglycerol O-acyltransferase 1) Full

Length

Cat. No.: **MPC3008K**

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

This product is a made-to-order Human DGAT1 membrane protein expressed in Baculovirus/Insect expression system. 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

DGAT1

Protein Length

Full length

Protein Class

Transferase

TMD

9

Sequence

MGDRGSSRRRTGSRPSSHGGGGPAAAEVEVRDAAAGPDVGAAGDAPAPA
PNKDG DAGVGS GHWELRCHRLQDSL FSSDSGFSNYRGILNWCVVMLILSN
ARL FLENLIKYGILVDPIQVVSFLKDPYSWPAPCLVIAANVFVAAAFQV
EKRLAVGALTEQAGLLLHVANLATILCFPAAVVLLVESITPVGSLLALMA
HTILFLKLFSYRDVNSWCRRARAKAASAGKKASSAAAPHTVSYPDNLTyr
DLYYFLFAPTLCYELNFPRSPRIRKRFLRRILEMLFFTQLQVGLIQQWM
VPTIQNSMKPFKDMDYSRIIERLLKLAVPNHLIWLIFFYWLFHSCLNAVA
ELMQFGDREFYRDWWNSESVTYFWQNWNI PVHKWCIRHFYKPMLRRGSSK
WMARTGVFLASAFFHEYLVSVPLRMFRLWAFTGMMAQIPLAWFVGRFFQG
NYGNAAVWLSLIIGQPIAVLMYVHDYYVLN YEAPAAEA

Product Description

Expression Systems

Baculovirus/Insect expression system

Tag

6xHis tag at the C-terminus

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**

DGAT1

Full Name

Diacylglycerol O-acyltransferase 1

Introduction

This gene encodes an multipass transmembrane protein that functions as a key metabolic enzyme. The encoded protein catalyzes the conversion of diacylglycerol and fatty acyl CoA to triacylglycerol. This enzyme can also transfer acyl CoA to retinol. Activity of this protein may be associated with obesity and other metabolic diseases.

Alternative Names

DGAT1; ARAT; DGAT; ARGP1; DIAR7; ACAT related gene product 1; acyl coenzyme A:cholesterol acyltransferase related gene 1; acyl-CoA retinol O-fatty-acyltransferase; acyl-CoA:diacylglycerol acyltransferase; diglyceride acyltransferase; Diacylglycerol O-acyltransferase 1

Gene ID

[8694](#)

UniProt ID

[O75907](#)