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Product Information

MemDX™ Membrane Protein Human CDIPT (CDP-diacylglycerol--inositol 3-phosphatidyltransferase) Full Length

Cat. No.: **MPC4272K**
This product is for research use only and is not intended for diagnostic use.

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

Protein Length
Full length

Protein Class
Transferase

TMD
5

Sequence
MPDENIFLFVPNLIGYARIVFAIISFYFMPCCPLTASSFYLLSGLLDAFD
GHAARALNQGTRFGAMLDMLTDRCSTMCLLVNLALLYPGATLFFQISMSL
DVASHWLHLHSSVVRGSESHKMIDLSGNPVLRIYYTSRPALFTLCAGNEL
FYCLLYLFHFSEGPLVGSVGLFRMGLWVTAPIALLKSLISVIHLITAARN
MAALDAADRAKKK

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

CDIPT

Full Name

CDP-diacylglycerol--inositol 3-phosphatidyltransferase

Introduction

Phosphatidylinositol breakdown products are ubiquitous second messengers that function downstream of many G protein-coupled receptors and tyrosine kinases regulating cell growth, calcium metabolism, and protein kinase C activity. Two enzymes, CDP-diacylglycerol synthase and phosphatidylinositol synthase, are involved in the biosynthesis of phosphatidylinositol. Phosphatidylinositol synthase, a member of the CDP-alcohol phosphatidyl transferase class-I family, is an integral membrane protein found on the cytoplasmic side of the endoplasmic reticulum and the Golgi apparatus. Several transcript variants encoding different isoforms have been found for this gene.

Alternative Names

CDIPT; PIS; PIS1; PI synthase; PtdIns synthase; phosphatidylinositol synthase; CDP-diacylglycerol--inositol 3-phosphatidyltransferase

Gene ID

10423

UniProt ID

O14735