

Product Information

MemDX™ Membrane Protein Human CDIPT (CDP-diacylglycerol--inositol 3-phosphatidyltransferase) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX2210K**

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

This product is a Human CDIPT membrane protein expressed *in vitro* E.coli 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

CDIPT

Protein Length

Full Length

Protein Class

Receptor

TMD

5

Sequence

MPDENIFLFVPNLIGYARIVFAISFYFMPCCPLTASSFYLLSGLLDAFDGHAARALNQGTRFGAMLDMLTDRCSTMCLLVNLALLYPG

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°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; CDP-diacylglycerol--inositol 3-phosphatidyltransferase; PI synthase; PtdIns synthase; phosphatidylinositol synthase; CDP-diacylglycerol--inositol 3-phosphatidyltransferase

Gene ID

[10423](#)

UniProt ID

[O14735](#)