

Product Information

MemDX™ Membrane Protein Human PTAFR (Platelet activating factor receptor) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX3388K**

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

This product is a Human PTAFR 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

PTAFR

Protein Length

Full Length

Protein Class

GPCR

TMD

7

Sequence

MEPHDSSHMDSEFRYTLFPIVYSIIFVLGVANGYVLWVFARLYPCKKFNEIKIFMVNLTMADMLFLITLPLWIVYYQNQGNWILPKFLO

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

PTAFR

Full Name

Platelet activating factor receptor

Introduction

This gene encodes a seven-transmembrane G-protein-coupled receptor for platelet-activating factor (PAF) that localizes to lipid rafts and/or caveolae in the cell membrane. PAF (1-O-alkyl-2-acetyl-sn-glycero-3-phosphorylcholine) is a phospholipid that plays a significant role in oncogenic transformation, tumor growth, angiogenesis, metastasis, and pro-inflammatory processes. Binding of PAF to the PAF-receptor (PAFR) stimulates numerous signal transduction pathways including phospholipase C, D, A2, mitogen-activated protein kinases (MAPKs), and the phosphatidylinositol-calcium second messenger system. Following PAFR activation, cells become rapidly desensitized and this refractory state is dependent on PAFR phosphorylation, internalization, and down-regulation. Alternative splicing results in multiple transcript variants.

Alternative Names

PTAFR; PAFR; platelet-activating factor receptor; PAF-R; Platelet activating factor receptor

Gene ID

[5724](#)

UniProt ID

[P25105](#)