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# Product Information

## MemDX™ Membrane Protein Human PTAFR (Platelet activating factor receptor) Full Length

Cat. No.: **MPC0342K**
This product is for research use only and is not intended for diagnostic use.

This product is a 39.2 kDa Human PTAFR 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**
PTAFR

**Protein Length**
Full length

**Protein Class**
GPCR

**Molecular Weight**
39.2 kDa

**TMD**
7

**Sequence**
MEPHDSSHMDSEFRYTLFPIVYSIIFVLGVIANGYVLWVFARLYPCKKFN
EIKIFMVNLTMADMLFLITLPLWIVYYQNQGNWILPKFLCNVAGCLFFIN
TYCSVAFLGVITYNRFQAVTRPIKTAQANTRKRGISLSLVIWVAIVGAAS
YFLILDSTNTVPDSAGSGNVTRCFEHYEKGSVPVLIIHIFIVFSFFLVFL
IILFCNLVIIRTLLMQPVQQQRNAEVKRRALWMVCTVLAVFIICFVPHHV
VQLPWTLAELGFQDSKFHQAINDAHQVTLCLLSTNCVLDPVIYCFLTKKF
RKHLTEKFYSMRSSRKCSRATTDTVTEVVVPFNQIPGNSLKN

## Product Description

**Expression Systems**
Baculovirus/Insect expression system

**Tag**
Based on specific requirements

**Protein Format**

Detergent or based on specific requirements

**Form**

Liquid

**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 (1-0-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**

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

**Gene ID**

5724

**UniProt ID**

P25105