

# Product Information

## MemDX™ Membrane Protein Human PTGER1 (Prostaglandin E receptor 1) Full Length

Cat. No.: **MPC0227K**

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

This product is a 41.8 kDa Human PTGER1 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

PTGER1

#### Protein Length

Full length

#### Protein Class

GPCR

#### Molecular Weight

41.8 kDa

#### TMD

7

#### Sequence

MSPCGPLNLSLAGEATTCAAPWVPNTSAVPPSGASPALPIFSMTLGAVSN  
LLALALLAQAAGRLRRRRSAATFLLFVASLLATDLAGHVIPGALVLRLYT  
AGRAPAGGACHFLGGCMVFFGLCPDLLGCGMAVERCVGVTRPLLHAARVS  
VARARLALAAVAVALAVALLPLARVGRYELQYPGTWCFI GLGPPGGWRQ  
ALLAGLFASLGLVALLAALVCNTLSGLALLRARWRRRSRRPPPPASGPDSR  
RRWGAHGPRSASASSASSIASASTFFGGSRSSGSARRARAHDEVGVQLV  
GIMVVSCICWSPMLVLVALAVGGWSSTSLQRPLFLAVRLASWNQILDPPWV  
YILLRQAVLRQLLRLLPPRAGAKGGPAGLGLTPSAWEASSLRSSRHSGLS  
HF

### 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**

PTGER1

**Full Name**

Prostaglandin E receptor 1

**Introduction**

The protein encoded by this gene is a member of the G protein-coupled receptor family. This protein is one of four receptors identified for prostaglandin E2 (PGE2). Through a phosphatidylinositol-calcium second messenger system, G-Q proteins mediate this receptor's activity. Knockout studies in mice suggested a role of this receptor in mediating algesia and in regulation of blood pressure. Studies in mice also suggested that this gene may mediate adrenocorticotrophic hormone response to bacterial endotoxin.

**Alternative Names**

EP1; prostaglandin E2 receptor EP1 subtype; PGE receptor, EP1 subtype; PGE2 receptor EP1 subtype; prostaglandin E receptor 1 (subtype EP1), 42kD; prostaglandin E receptor 1 (subtype EP1), 42kDa; prostaglandin E receptor 1, subtype EP1; prostanoid EP1 receptor; PTGER1; Prostaglandin E receptor 1

**Gene ID**

[5731](#)

**UniProt ID**

[P34995](#)