

# Product Information

## **MemDX™ Membrane Protein Human PTGER1 (Prostaglandin E receptor 1) Expressed *in vitro* E.coli expression system, Full Length**

Cat. No.: **MPX3535K**

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

This product is a Human PTGER1 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

PTGER1

#### Protein Length

Full Length

#### Protein Class

GPCR

#### TMD

7

#### Sequence

MSPCGPLNLSLAGEATTCAAPWVPNTSAVPPSGASPALPIFSMTLGAVSNLLALALLAQAAGRLRRRRSAATFLLFVASLLATDLAG

### 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

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

PTGER1; 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; Prostaglandin E receptor 1

#### Gene ID

[5731](#)

#### UniProt ID

[P34995](#)