

Product Information

MemDX™ Membrane Protein Human PTGER4 (Prostaglandin E receptor 4) Expressed in *vitro* *E.coli* expression system, Full Length

Cat. No.: **MPX3611K**

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

This product is a Human PTGER4 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

PTGER4

Protein Length

Full Length

Protein Class

GPCR

TMD

7

Sequence

MSTPGVNSSASLSPDRLNSPVTIPAVMFIFGVVGNLVAIVLCKSRKEQKETTFYTLVCGLAVTDLLGTLLSPVTIATYMKGQWPCC

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

PTGER4

Full Name

Prostaglandin E receptor 4

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). This receptor can activate T-cell factor signaling. It has been shown to mediate PGE2 induced expression of early growth response 1 (EGR1), regulate the level and stability of cyclooxygenase-2 mRNA, and lead to the phosphorylation of glycogen synthase kinase-3. Knockout studies in mice suggest that this receptor may be involved in the neonatal adaptation of circulatory system, osteoporosis, as well as initiation of skin immune responses.

Alternative Names

PTGER4; EP4; EP4R; prostaglandin E2 receptor EP4 subtype; PGE receptor, EP4 subtype; PGE2 receptor EP4 subtype; prostaglandin E receptor 4 (subtype EP4); prostanoid EP4 receptor; Prostaglandin E receptor 4

Gene ID

[5734](#)

UniProt ID

[P35408](#)