

## HUMAN PTGER4 PROTEIN, HFC TAG

**Cat.#:** 11712

**Product Name:** Human PTGER4 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** EP4;EP4R

**Target:** PTGER4

**UNIPROT ID:** P35408

**Description:** Recombinant Human PTGER4 Protein with C-terminal human Fc tag

**Background:** 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 (EGRI), 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. [provided by RefSeq, Jul 2008]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 28.1 kDa after removal of the signal peptide. The apparent molecular mass of PTGER4-hFc is approximately 35-55 kDa due to glycosylation.

**Molecular Characterization:** PTGER4(Met1-Ser19) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

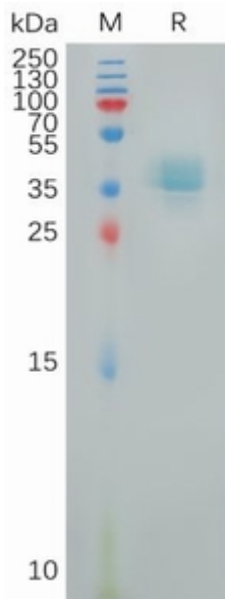


Figure 1. Human PTGER4 Protein, hFc Tag on SDS-PAGE under reducing condition.