

HUMAN PTGER4 FULL LENGTH PROTEIN

Cat.#: 11078

Product Name: Human PTGER4 Full Length Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: EP4; EP4R

Target: PTGER4

UNIPROT ID: P35408

Description: Human PTGER4 Full Length Protein-Synthetic Nanodisc

Background: The protein 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.

Species/Host: HEK293

Molecular Weight: The human full length PTGER4 protein has a MW of 53.1 kDa

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.

Protein Families: Druggable Genome, GPCR, Transmembrane

Protein Pathways: Neuroactive ligand-receptor interaction

ELISA assay to evaluate PTGER4-Nanodisc 0.2µg Human PTGER4-Nanodisc per well

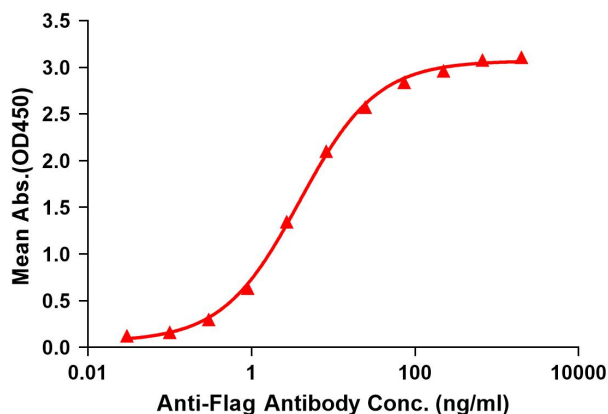


Figure 1. Elisa plates were pre-coated with Flag Tag PTGER4-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PTGER4-Nanodisc is 3.882ng/ml.

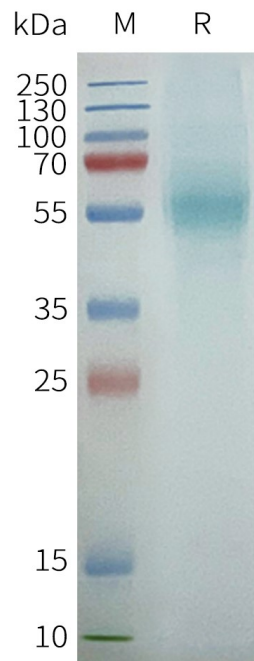


Figure 2. Human PTGER4-Nanodisc, Flag Tag on SDS-PAGE