

HUMAN PROKR1 FULL LENGTH PROTEIN

Cat.#: 11083

Product Name: Human PROKR1 Full Length Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: GPR73;GPR73a;PK-R1;PKR1;ZAQ

Target: PROKR1

UNIPROT ID: Q8TCW9

Description: Human PROKR1 Full Length Protein-Synthetic Nanodisc

Background: A member of the G-protein-coupled receptor family. The encoded protein binds to prokineticins (1 and 2), leading to the activation of MAPK and STAT signaling pathways. Prokineticins are protein ligands involved in angiogenesis and inflammation. The encoded protein is expressed in peripheral tissues such as those comprising the circulatory system, lungs, reproductive system, endocrine system and the gastrointestinal system. The protein may be involved in signaling in human fetal ovary during initiation of primordial follicle formation. Sequence variants in this gene may be associated with recurrent miscarriage.

Species/Host: HEK293

Molecular Weight: The human full length PROKR1 protein has a MW of 44.8 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: N/A

ELISA assay to evaluate PROKR1-Nanodisc 0.2µg Human PROKR1-Nanodisc per well

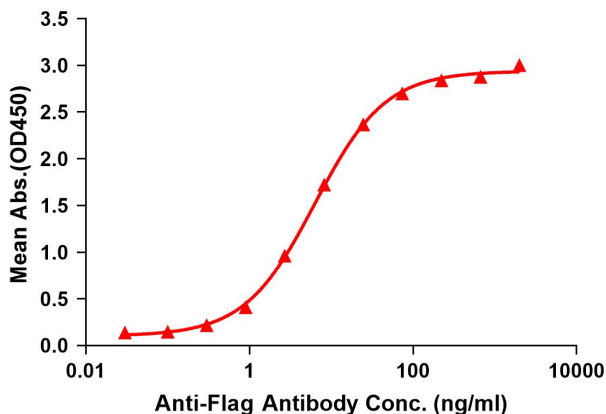


Figure 1. Elisa plates were pre-coated with Flag Tag PROKR1-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with PROKR1-Nanodisc is 6.323ng/ml.

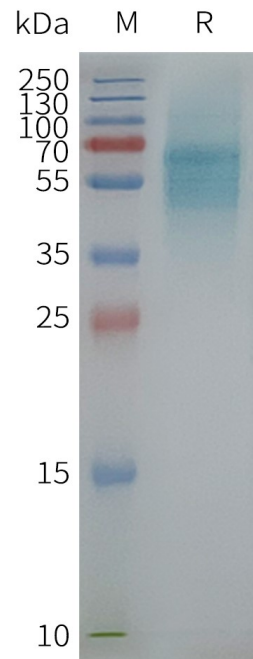


Figure 2. Human PROKR1-Nanodisc, Flag Tag on SDS-PAGE