

## HUMAN GPR84 FULL LENGTH PROTEIN

**Cat.#:** 11110

**Product Name:** Human GPR84 Full Length Protein

**Size:** 10 µg; 50 µg and 100 µg

**Synonyms:** EX33; GPCR4

**Target:** GPR84

**UNIPROT ID:** Q9NQ55

**Description:** Human GPR84 Full Length Protein-Synthetic Nanodisc

**Background:** Receptor for medium-chain free fatty acid (FFA) with carbon chain lengths of C9 to C14. Capric acid (C10:0), undecanoic acid (C11:0) and lauric acid (C12:0) are the most potent agonists. Not activated by short-chain and long-chain saturated and unsaturated FFAs. Activation by medium-chain free fatty acid is coupled to a pertussis toxin sensitive G(i/o) protein pathway. May have important roles in processes from fatty acid metabolism to regulation of the immune system.

**Species/Host:** HEK293

**Molecular Weight:** The human full length GPR84 protein has a MW of 43.7 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 GPR84-Nanodisc 0.2µg Human GPR84-Nanodisc per well

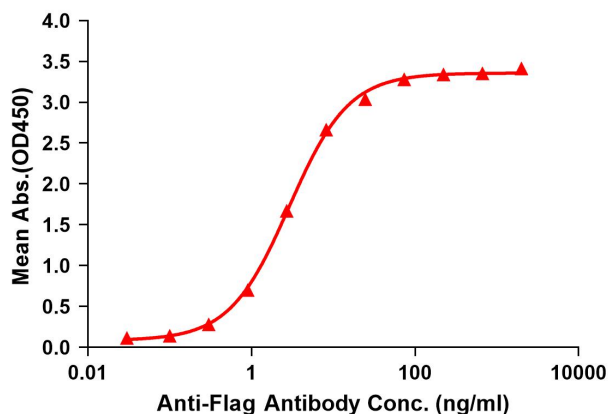


Figure 1. Elisa plates were pre-coated with Flag Tag GPR84-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GPR84-Nanodisc is 2.893ng/ml.



Figure 2. WB analysis of Human GPR84-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution