

## HUMAN GCGR FULL LENGTH PROTEIN

**Cat.#:** 11066

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

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** GGR; GL-R; MVAH

**Target:** GCGR

**UNIPROT ID:** P47871

**Description:** Human GCGR full length protein-synthetic nanodisc

**Background:** G-protein coupled receptor for glucagon that plays a central role in the regulation of blood glucose levels and glucose homeostasis. Regulates the rate of hepatic glucose production by promoting glycogen hydrolysis and gluconeogenesis. Plays an important role in mediating the responses to fasting. Ligand binding causes a conformation change that triggers signaling via guanine nucleotide-binding proteins (G proteins) and modulates the activity of downstream effectors, such as adenylate cyclase. Promotes activation of adenylate cyclase. Besides, plays a role in signaling via a phosphatidylinositol-calcium second messenger system.

**Species/Host:** HEK293

**Molecular Weight:** The human full length GCGR protein has a MW of 54.0 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.

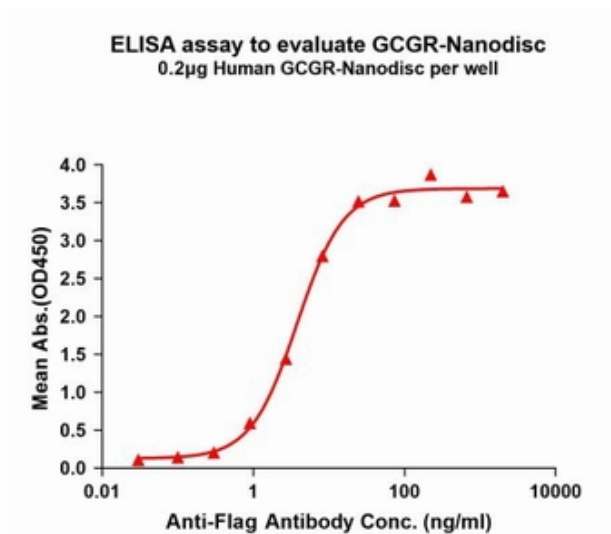


Figure1. Elisa plates were pre-coated with Flag Tag GCGR-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GCGR-Nanodisc is 3.800ng/ml.

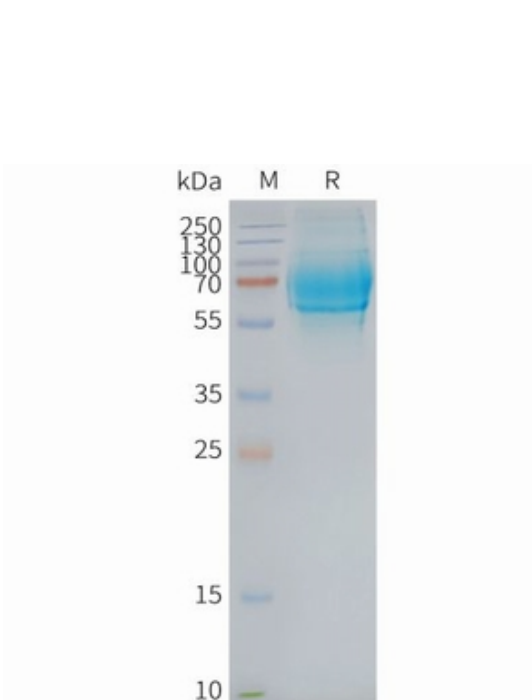


Figure2. Human GCGR-Nanodisc, Flag Tag on SDS-PAGE