

HUMAN GIPR FULL LENGTH PROTEIN

Cat.#: 11111

Product Name: Human GIPR Full Length Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: PGQL2

Target: GIPR

UNIPROT ID: P48546

Description: Human GIPR Full Length Protein-Synthetic Nanodisc

Background: A G-protein coupled receptor for gastric inhibitory polypeptide (GIP), which was originally identified as an activity in gut extracts that inhibited gastric acid secretion and gastrin release, but subsequently was demonstrated to stimulate insulin release in the presence of elevated glucose. Mice lacking this gene exhibit higher blood glucose levels with impaired initial insulin response after oral glucose load. Defect in this gene thus may contribute to the pathogenesis of diabetes.

Species/Host: HEK293

Molecular Weight: The human full length GIPR protein has a MW of 53.2 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 GIPR-Nanodisc 0.2µg Human GIPR-Nanodisc per well

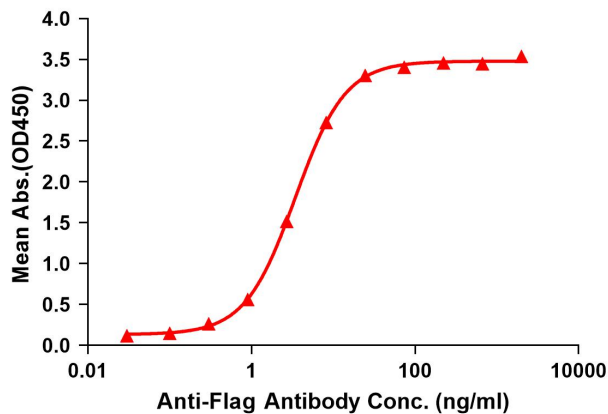


Figure 1. Elisa plates were pre-coated with Flag Tag GIPR-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GIPR-Nanodisc is 3.437ng/ml.

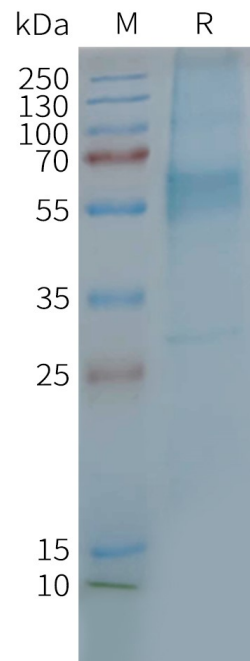


Figure 2. Human GIPR-Nanodisc, Flag Tag on SDS-PAGE