

# Biotinylated Human GCGR/Glucagon receptor Protein-Nanodisc

Cat. No. GCR-HM100NB

## Description

Source	Recombinant Biotinylated Human GCGR/Glucagon receptor Protein-Nanodisc is expressed from HEK293 with His tag at the C-terminus. It contains Met1-Phe477.
Accession	P47871
Molecular Weight	The protein has a predicted MW of 66.9 kDa.
Endotoxin	Less than 1EU per $\mu\text{g}$ by the LAL method.

## Formulation and Storage

Formulation	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Notice: Not recommended for immunization.
Storage	Valid for 12 months from date of receipt when stored at $-80^{\circ}\text{C}$ . Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

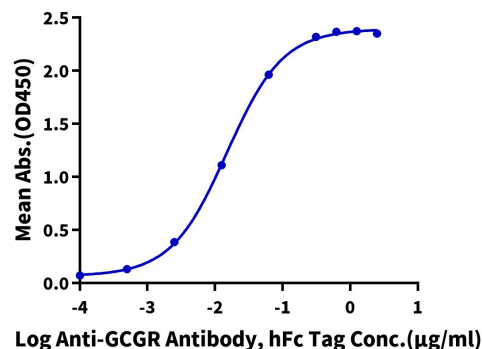
The pancreatic hormone glucagon activates the glucagon receptor (GCGR), a class B seven-transmembrane G protein-coupled receptor that couples to the stimulatory heterotrimeric G protein and provokes PKA-dependent signaling cascades vital to hepatic glucose metabolism and islet insulin secretion. The GCGR expressed at the plasma membrane is constitutively ubiquitinated and upon agonist-activation, internalized GCGRs are deubiquitinated at early endosomes and recycled via Rab4-containing vesicles.

## Assay Data

### ELISA Data

#### Biotinylated Human GCGR Nanodisc, His Tag ELISA

0.5 $\mu\text{g}$  Biotinylated Human GCGR Nanodisc, His Tag Per Well



Immobilized Biotinylated Human GCGR Nanodisc, His Tag at 5 $\mu\text{g}/\text{ml}$  (100 $\mu\text{l}/\text{well}$ ) on the streptavidin precoated plate (5 $\mu\text{g}/\text{ml}$ ). Dose response curve for Anti-GCGR Antibody, hFc Tag with the EC50 of 15.0ng/ml determined by ELISA (QC Test).