

## **PRODUCT INFORMATION**

C-Flag&Strep Tag Tag

**Target** GPER1

CEPR; CMKRL2; DRY12; FEG-1; GPCR-Br; GPER; **Synonyms** 

GPR30; LERGU; LERGU2; LyGPR; mER

Human GPER1-Strep full length protein-synthetic Description

nanodisc

In Stock **Delivery Uniprot ID** Q99527 HFK293 **Expression Host** 

**Protein Families** Druggable Genome, GPCR, Transmembrane

**Protein Pathways** 

Formulation & Reconstitution

Storage & Shipping

**Background** 

The human full length GPER1-Strep protein has a **Molecular Weight** 

MW of 42.2 kDa

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. Please see Certificate of Analysis for specific instructions. Do not use solvents with

a pH below 6.5 or those containing high concentrations of divalent metal ions (greater than 5 mM) in subsequent experiments. 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.

A multi-pass membrane protein that localizes to the endoplasmic reticulum and a member of the G-protein coupled receptor 1 family. This receptor

binds estrogen and activates multiple downstream signaling pathways, leading to stimulation of adenylate cyclase and an increase in cyclic AMP levels, while also promoting

intracellular calcium mobilization and synthesis of phosphatidylinositol 3,4,5-trisphosphate in the nucleus. This protein therefore plays a role in the

rapid nongenomic signaling events widely observed following stimulation of cells and tissues with estrogen. This receptor has been shown to play a role in diverse biological processes, including bone and nervous system development, metabolism, cognition, male fertility and uterine

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function.

Usage Research use only Conjugate Unconjugated





## ELISA assay to evaluate GPER1-Strep-Nanodisc 0.2µg Human GPER1-Strep-Nanodisc per well

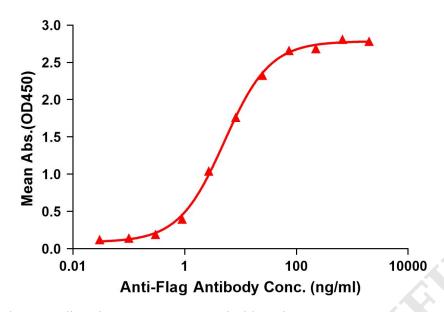


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag GPER1-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GPER1-Strep-nanodisc is 5.129ng/ml.

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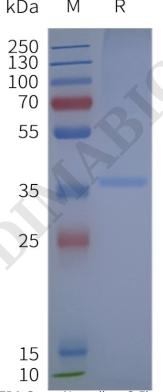


Figure 2. Human GPER1-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

