

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **HUMAN GLP1R FULL LENGTH PROTEIN**

**Cat.#:** 11102

Product Name: Human GLP1R Full Length Protein

**Size:** 10 μg, 50 μg and 100 μg

Synonyms: GLP-1; GLP-1-R; GLP-1R

Target: GLP1R

UNIPROT ID: P43220

**Description:** Human GLP1R full length protein-synthetic nanodisc

Background: A 7-transmembrane protein that functions as a receptor for

glucagon-like peptide 1 (GLP-1) hormone, which stimulates glucose-induced insulin secretion. This receptor, which functions at the cell surface, becomes internalized in response to GLP-1 and GLP-1 analogs, and it plays an important role in the signaling cascades leading to insulin secretion. It also displays neuroprotective effects in animal models. Polymorphisms in this gene are associated with diabetes. The protein is an important drug target for the treatment of type 2 diabetes and stroke. Alternative splicing of this gene results in multiple transcript variants.

Species/Host: HEK293

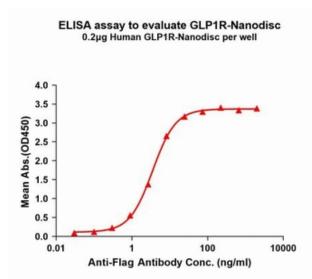
**Molecular Weight:** The human full length GLP1R protein has a MW of 53.0 kDa **Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**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.



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Figurel. Elisa plates were pre-coated with Flag Tag GLPIR-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 GLPIR-Nanodisc is 3.549ng/ml.

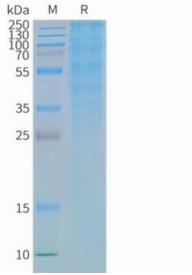


Figure 2. Human GLP1R-Nanodisc, Flag Tag on SDS-PAGE