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Datasheet for ABIN7491651 **GIPR Protein**

2 Images



Overview

| Quantity: | 100 µg |
|---------------|--------------------|
| Target: | GIPR |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

| Purpose: | Human GIPR full length protein-synthetic nanodisc |
|------------------|---|
| Characteristics: | Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc |
| | can be prepared directly from the cells. The polymers used during this process have a dual |
| | function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to |
| | form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can |
| | then be purified. |

Target Details

| Target: | GIPR |
|-------------------|--|
| Alternative Name: | GIPR (GIPR Products) |
| 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 |

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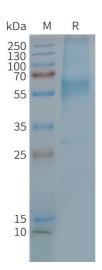
Target Details

| | diabetes. |
|-------------------|--|
| Molecular Weight: | The human full length GIPR protein has a MW of 53.2 kDa |
| UniProt: | P48546 |
| Pathways: | Positive Regulation of Peptide Hormone Secretion, cAMP Metabolic Process, Regulation of G- Protein Coupled Receptor Protein Signaling |

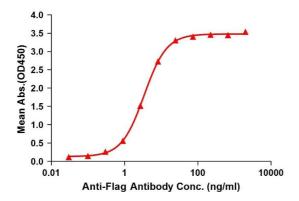
Application Details

| Comment: | Advantages of Synthetic Nanodiscs: |
|------------------|---|
| | Highly purified membrane proteins |
| | High solubility in aqueous solutions |
| | High stability |
| | Proteins are in a native membrane environment and remain biologically active |
| | No detergent and can be used for cell-based assays |
| | No MSP backbone proteins |
| | Limitations of Synthetic Nanodiscs: |
| | Intolerant to acids and high concentrations of divalent metal ions |
| Restrictions: | For Research Use only |
| Handling | |
| Format: | Lyophilized |
| Buffer: | 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: | |
| | -20 °C,-80 °C |
| Storage Comment: | -20 °C,-80 °C Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for |
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ELISA assay to evaluate GIPR-Nanodisc 0.2µg Human GIPR-Nanodisc per well



SDS-PAGE

Image 1. Human GIPR-Nanodisc, Flag Tag on SDS-PAGE

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag GIPR-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 GIPR-Nanodisc is 3.437 ng/mL.

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