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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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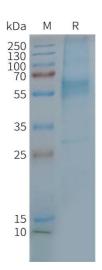
Target Details

	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

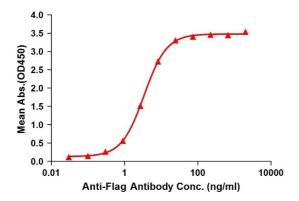
Application Details

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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