Cat. No. FLP100370



PRODUCT INFORMATION

Target NPY1R

Synonyms NPY1-R; NPYR

Human NPY1R full length protein-synthetic **Description**

nanodisc In Stock

Delivery Uniprot ID P25929 **Expression Host HEK293**

Formulation &

Reconstitution

Storage & Shipping

Background

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length NPY1R protein has a MW of **Molecular Weight**

44.4 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. Lyophilized from PBS. Normally 5% - 8% trehalose is added as

protectants before lyophilization. Please see Certificate of Analysis for specific instructions. Do not use solvents with pH lower than 6.5 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.

The transmembrane protein mediates the function of neuropeptide Y (NPY), a neurotransmitter, and peptide YY (PYY), a gastrointestinal hormone. The encoded receptor undergoes fast agonist-induced internalization through clathrin-coated pits and is subsequently recycled back to the cell membrane. Activation of

Y1 receptors may result in mobilization of intracellular calcium and inhibition of adenylate

cyclase activity.

Usage Research use only

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ELISA assay to evaluate NPY1R-Nanodisc 0.2µg Human NPY1R-Nanodisc per well

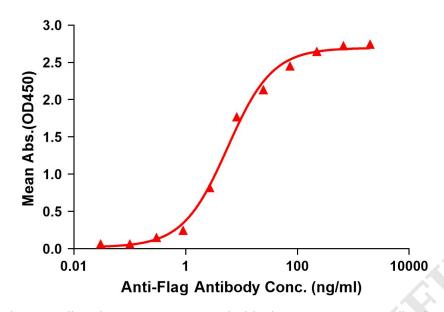


Figure 1. Elisa plates were pre-coated with Flag Tag NPY1R-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with NPY1R-Nanodisc is 5.641ng/ml.

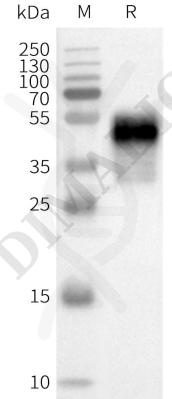


Figure 2. WB analysis of Human NPY1R-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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