

PRODUCT INFORMATION

C-Flag Tag Tag **Target GNRHR**

Synonyms GNRHR1; GRHR; HH7; LHRHR; LRHR

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

nanodisc **Delivery** In Stock **Uniprot ID** P30968 **Expression Host HEK293**

Formulation &

Background

Protein Families Druggable Genome, GPCR, Transmembrane

GnRH signaling pathway, Neuroactive ligand-receptor interaction **Protein Pathways**

The human full length GNRHR protein has a MW **Molecular Weight**

of 37.7 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

Reconstitution 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 Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

The receptor for type 1 gonadotropin-releasing hormone. This receptor is a member of the seventransmembrane, G-protein coupled receptor (GPCR) family. It is expressed on the surface of pituitary gonadotrope cells as well as lymphocytes, breast, ovary, and prostate. Following binding of gonadotropin-releasing

hormone, the receptor associates with G-proteins that activate a phosphatidylinositol-calcium

second messenger system. Activation of the receptor ultimately causes the release of gonadotropic luteinizing hormone (LH) and follicle stimulating hormone (FSH). Defects in this gene are a cause of hypogonadotropic hypogonadism (HH). Alternative splicing results in multiple transcript variants encoding different isoforms.

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Usage Research use only Conjugate Unconjugated





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

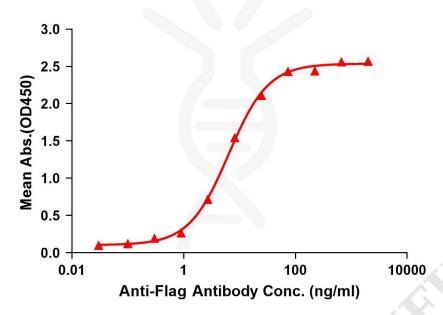


Figure 1. Elisa plates were pre-coated with Flag Tag GNRHR-Nanodisc ($0.2\mu g/per$ well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with GNRHR-Nanodisc is 6.385 ng/ml.

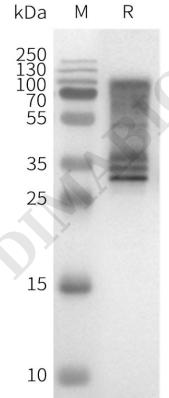


Figure 2. WB analysis of Human GNRHR-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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