Cat. No. FLP100099



## **PRODUCT INFORMATION**

C-Flag Tag Tag HCRTR1 **Target** 

**Synonyms** ORXR1;OX1R;OXR1

Human HCRTR1 full length protein-synthetic **Description** 

nanodisc **Delivery** In Stock **Uniprot ID** 043613 **Expression Host HEK293** 

Druggable Genome, ES Cell Differentiation/IPS, **Protein Families** 

GPCR, Transmembrane

**Protein Pathways** Neuroactive ligand-receptor interaction

The human full length HCRTR1 protein has a MW **Molecular Weight** 

of 47.5 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

Formulation & Reconstitution for specific instructions. Do not use solvents with

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 protein is a G-protein coupled receptor involved in the regulation of feeding behavior. The encoded protein selectively binds the hypothalamic neuropeptide orexin A. A related gene (HCRTR2) encodes a G-protein coupled

receptor that binds orexin A and orexin B.

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Usage Research use only Conjugate Unconjugated

**Background** 





## ELISA assay to evaluate HCRTR1-Nanodisc 0.2µg Human HCRTR1-Nanodisc per well

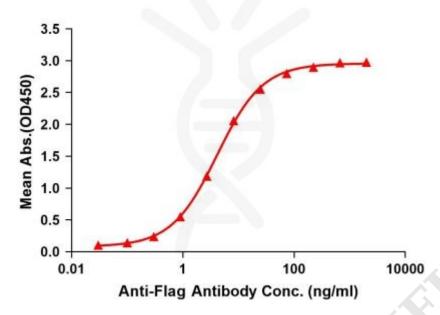


Figure 1. Elisa plates were pre-coated with Flag Tag HCRTR1-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with HCRTR1-Nanodisc is 4.139ng/ml.

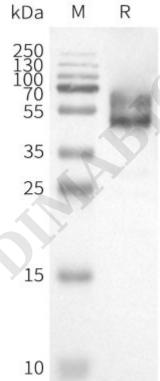


Figure 2. WB analysis of Human HCRTR1-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution

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