

## HUMAN HCRTR1 FULL LENGTH PROTEIN

**Cat.#:** 11080

**Product Name:** Human HCRTR1 Full Length Protein

**Size:** 10 µg; 50 µg and 100 µg

**Synonyms:** ORXR1;OXIR;OXRI

**Target:** HCRTR1

**UNIPROT ID:** O43613

**Description:** Human HCRTR1 Full Length Protein-Synthetic Nanodisc

**Background:** 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.

**Species/Host:** HEK293

**Molecular Weight:** The human full length HCRTR1 protein has a MW of 47.5 kDa

**Formulation & Reconstitution:** 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 & Shipping:** 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.

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane

**Protein Pathways:** Neuroactive ligand-receptor interaction

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

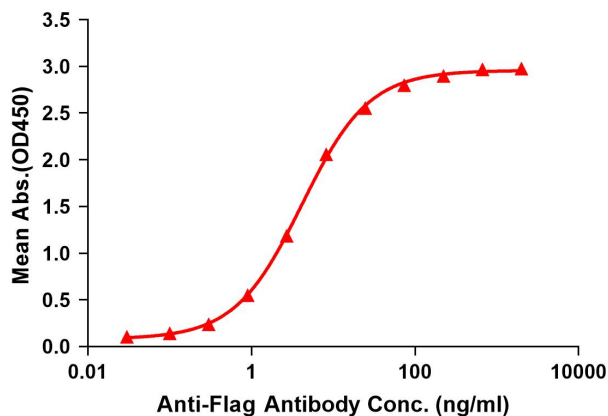


Figure 1. Elisa plates were pre-coated with Flag Tag HCRTR1-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with HCRTR1-Nanodisc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

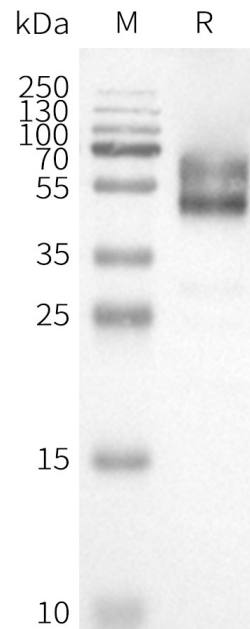


Figure 2. WB analysis of Human HCRTR1-Nanodisc with anti-Flag monoclonal antibody at 1/5000 dilution, followed by Goat Anti-Rabbit IgG HRP at 1/5000 dilution