

PRODUCT INFORMATION

Tag	C-Flag Tag
Target	HCRTR1
Synonyms	ORXR1; OX1R; OXR1
Description	Human HCRTR1 full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	O43613
Expression Host	HEK293
Protein Families	Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane
Protein Pathways	Neuroactive ligand-receptor interaction
Molecular Weight	The human full length HCRTR1 protein has a MW 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 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.
Formulation & Reconstitution	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.
Storage&Shipping	
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.
Usage	Research use only
Conjugate	Unconjugated



ELISA assay to evaluate HCRTR1-Nanodisc 0.2 μ g Human HCRTR1-Nanodisc per well

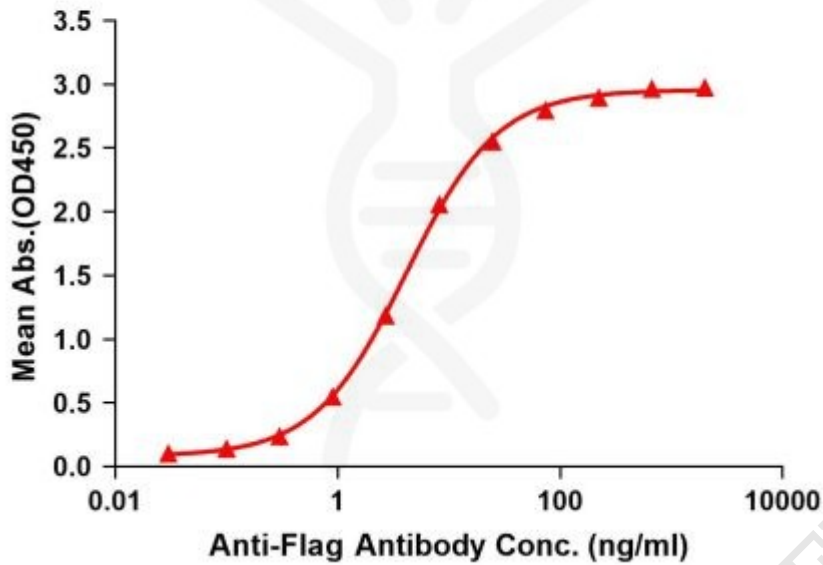


Figure1. Elisa plates were pre-coated with Flag Tag HCRTR1-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with HCRTR1-Nanodisc is 4.139ng/ml.



Figure2. 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

