

HUMAN HCRTR1 PROTEIN, HFC TAG**Cat.#:** 11850**Product Name:** Human HCRTR1 Protein**Size :** 10 µg, 50 µg and 100 µg**Synonyms:** ORXR1;OX1R;OXR1**Target:** HCRTR1**UNIPROT ID:** O43613**Description:** Recombinant Human HCRTR1 Protein with C-terminal human Fc tag**Background:** The protein encoded by this gene 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. [provided by RefSeq, Jan 2009]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 31.5 kDa after removal of the signal peptide. The apparent molecular mass of HCRTR1-hFc is approximately 35-55 kDa due to glycosylation.**Molecular Characterization:** HCRTR1(Met1-Glu46) hFc(Glu99-Ala330)**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.**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.



Figure 1. Human HCRT1 Protein, hFc Tag on SDS-PAGE under reducing condition.