

**PRODUCT INFORMATION**

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|---|---|
| <b>Tag</b>                              | C-Flag&Strep Tag  |
| <b>Target</b>                           | HCRTR1  |
| <b>Synonyms</b>                         | ORXR1;OX1R;OXR1   |
| <b>Description</b>                      | Human HCRTR1-Strep full length protein-synthetic nanodisc   |
| <b>Delivery</b>                         | 6~8weeks  |
| <b>Uniprot ID</b>                       | O43613  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Protein Families</b>                 | Druggable Genome, ES Cell Differentiation/IPS, GPCR, Transmembrane  |
| <b>Protein Pathways</b>                 | Neuroactive ligand-receptor interaction   |
| <b>Molecular Weight</b>                 | The human full length HCRTR1-Strep protein has a MW of 47.5 kDa<br>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. |
| <b>Formulation &amp; Reconstitution</b> | 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.   |
| <b>Storage &amp; Shipping</b>           | 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.  |
| <b>Background</b>                       |   |
| <b>Usage</b>                            | Research use only   |
| <b>Conjugate</b>                        | Unconjugated  |

