

PRODUCT INFORMATION

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| Tag | C-Flag&Strep Tag |
| Target | CRHR2 |
| Synonyms | CRF-RB; CRF2; CRFR2; HM-CRF |
| Description | Human CRHR2-Strep full length protein-synthetic nanodisc |
| Delivery | In Stock |
| Uniprot ID | Q13324 |
| Expression Host | HEK293 |
| Protein Families | Druggable Genome, GPCR, Transmembrane |
| Protein Pathways | Neuroactive ligand-receptor interaction |
| Molecular Weight | The human full length CRHR2-Strep protein has a MW of 47.7 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. 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. |
| 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. |
| Sterility | Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use. |
| Background | The protein belongs to the G-protein coupled receptor 2 family, and the subfamily of corticotropin releasing hormone receptor. This receptor shows high affinity for corticotropin releasing hormone (CRH), and also binds CRH-related peptides such as urocortin. CRH is synthesized in the hypothalamus, and plays an important role in coordinating the endocrine, autonomic, and behavioral responses to stress and immune challenge. Studies in mice suggest that this receptor maybe involved in mediating cardiovascular homeostasis. |
| Usage | Research use only |
| Conjugate | Unconjugated |



ELISA assay to evaluate CRHR2-Strep-Nanodisc 0.2µg Human CRHR2-Strep-Nanodisc per well

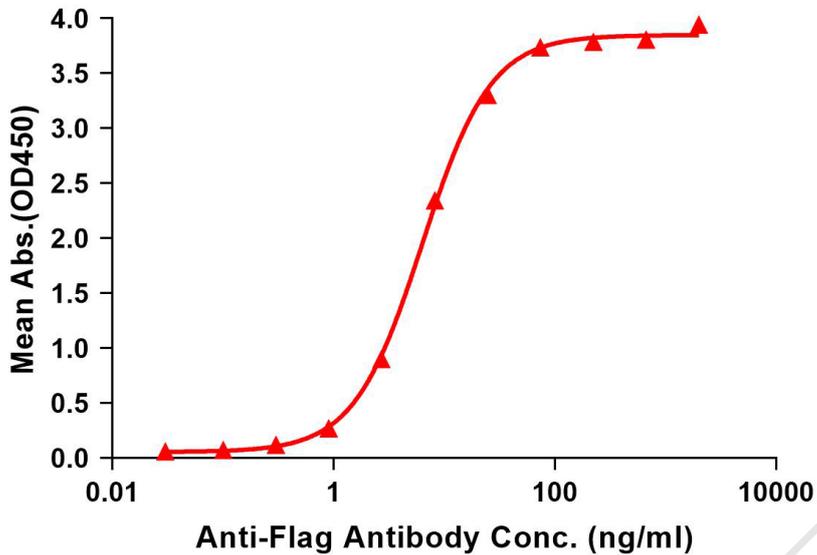


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag CRHR2-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with CRHR2-Strep-nanodisc is 6.341ng/ml.



Figure 2. Human CRHR2-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

