

PRODUCT INFORMATION

|                              |   |
|------------------------------|---|
| Tag                          | C-Flag&Strep Tag  |
| Target                       | NK3R  |
| Synonyms                     | HH11; NK-3R; NK3; NKR; TAC3R; TAC3RL  |
| Description                  | Human NK3R-Strep full length protein-synthetic nanodisc   |
| Delivery                     | In Stock  |
| Uniprot ID                   | P29371  |
| Expression Host              | HEK293  |
| Protein Families             | Druggable Genome, GPCR, Transcription Factors, Transmembrane  |
| Protein Pathways             | Calcium signaling pathway, Neuroactive ligand-receptor interaction  |
| Molecular Weight             | The human full length NK3R-Strep protein has a MW of 52.2 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 of reconstitution.  |
| 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.   |
| Background                   | This is a receptor for the tachykinin neuropeptide neuromedin-K (neurokinin B). It is associated with G proteins that activate a phosphatidylinositol-calcium second messenger system. The rank order of affinity of this receptor to tachykinins is: neuromedin-K > substance K > substance P. |
| Usage                        | Research use only   |
| Conjugate                    | Unconjugated  |



**ELISA assay to evaluate NK3R-Strep-Nanodisc**  
0.2µg Human NK3R-Strep-Nanodisc per well

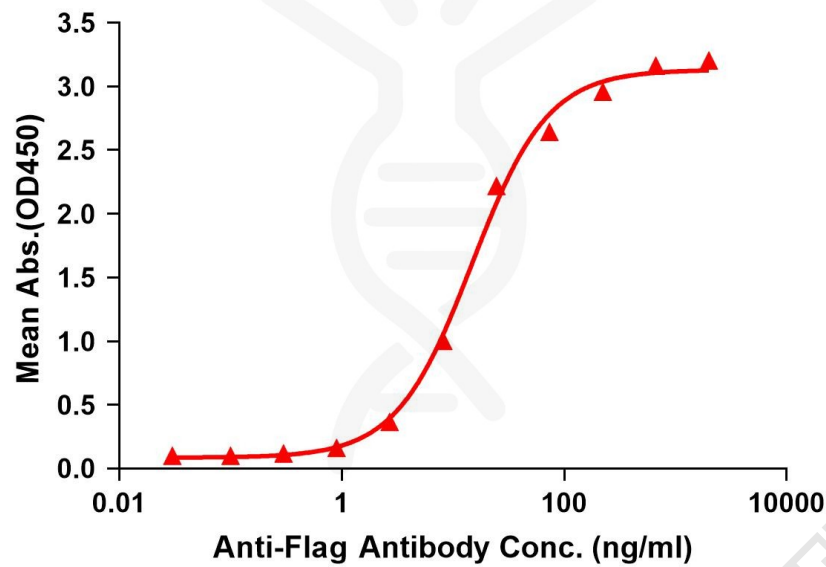


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag NK3R-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with NK3R-Strep-nanodisc is 14.87ng/ml.

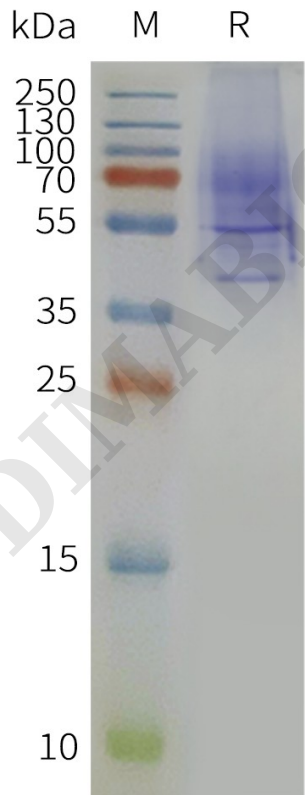


Figure 2. Human NK3R-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

