

PRODUCT INFORMATION

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|---|---|
| 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
0.2 μ g Human NK3R-Strep-Nanodisc per well

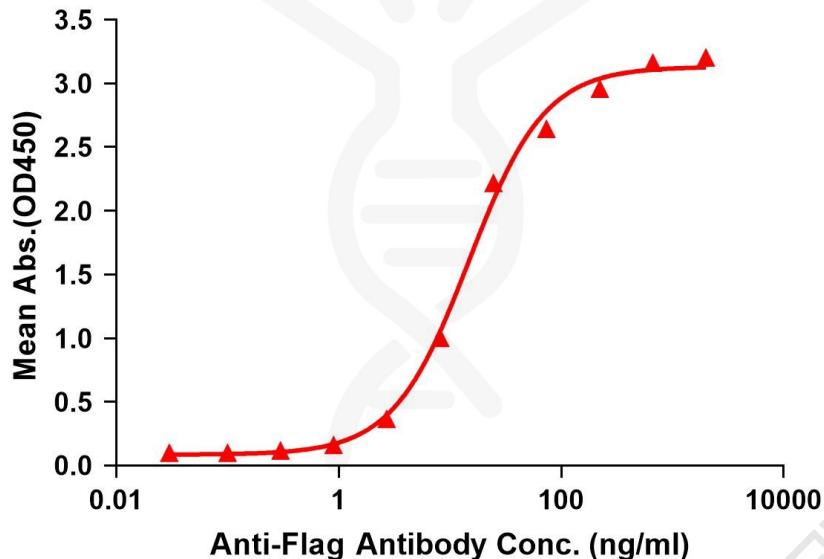


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag NK3R-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding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



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

