

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. 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	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

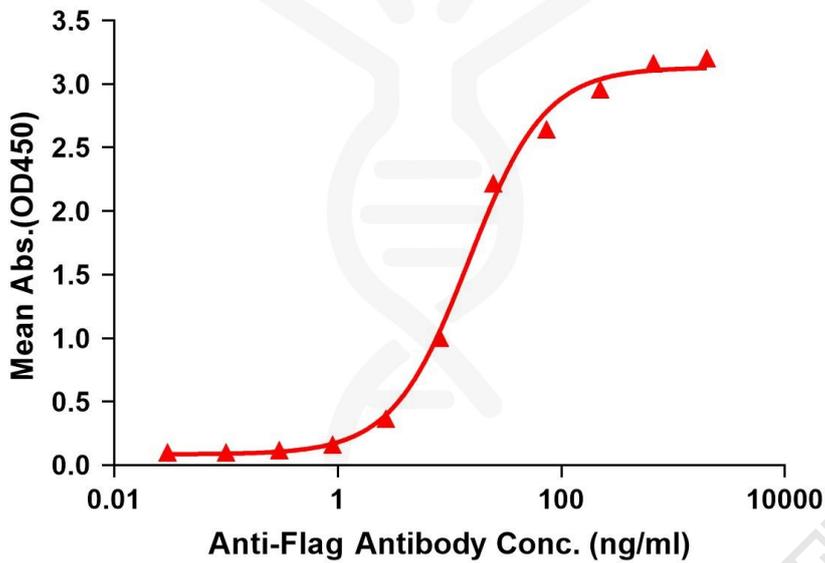


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag NK3R-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding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

kDa M R

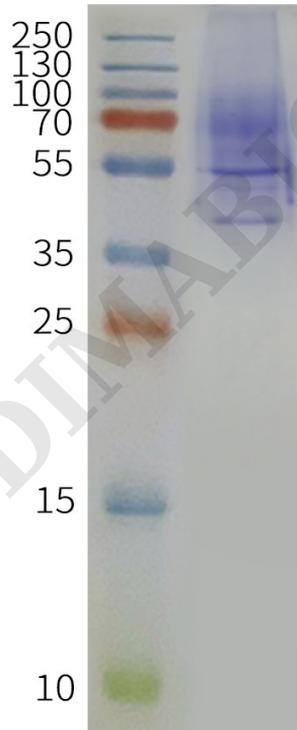


Figure 2. Human NK3R-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

