

## PRODUCT INFORMATION

<b>Tag</b>	C-Flag&Strep Tag
<b>Expression Host</b>	HEK293
<b>Target</b>	FSHR
<b>Synonyms</b>	FSHR1; FSHRO; LGR1; ODG1
<b>Description</b>	Human FSHR-Strep full length protein-synthetic nanodisc
<b>Uniprot ID</b>	P23945
<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 FSHR-Strep protein has a MW of 78.2 kDa
<b>Delivery</b>	In Stock
<b>Formulation &amp; Reconstitution</b>	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>Sterility</b>	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 µm) prior to use.
<b>Storage&amp;Shipping</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>Background</b>	The protein belongs to family 1 of G-protein coupled receptors. It is the receptor for follicle stimulating hormone and functions in gonad development. Mutations in this gene cause ovarian dysgenesis type 1, and also ovarian hyperstimulation syndrome. Alternative splicing results in multiple transcript variants.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



### ELISA assay to evaluate FSHR-Strep-Nanodisc 0.2 $\mu$ g Human FSHR-Strep-Nanodisc per well

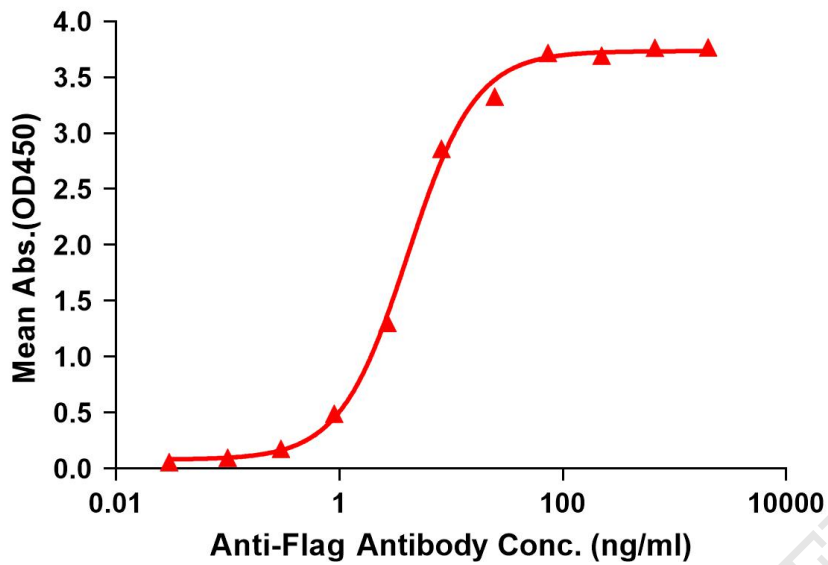


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag FSHR-Strep-Nanodisc (0.2 $\mu$ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FSHR-Strep-nanodisc is 4.092ng/ml.

kDa M R

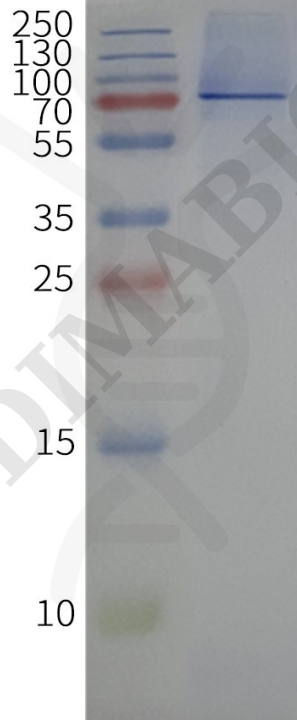


Figure 2. Human FSHR-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

