

PRODUCT INFORMATION

Tag	C-Flag&Strep Tag
Target	LSHR
Synonyms	HHG; LCGR; LGR2; LH/CG-R; LH/CGR; LHR; LHRHR; LSH-R; ULG5
Description	Human LSHR-Strep full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P22888
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Calcium signaling pathway, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length LSHR-Strep protein has a MW of 78.6 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.
Background	The receptor for both luteinizing hormone and choriogonadotropin. This receptor belongs to the G-protein coupled receptor 1 family, and its activity is mediated by G proteins which activate adenylate cyclase. Mutations in this gene result in disorders of male secondary sexual character development, including familial male precocious puberty, also known as testotoxicosis, hypogonadotropic hypogonadism, Leydig cell adenoma with precocious puberty, and male pseudohermaphroditism with Leydig cell hypoplasia.
Usage	Research use only
Conjugate	Unconjugated



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

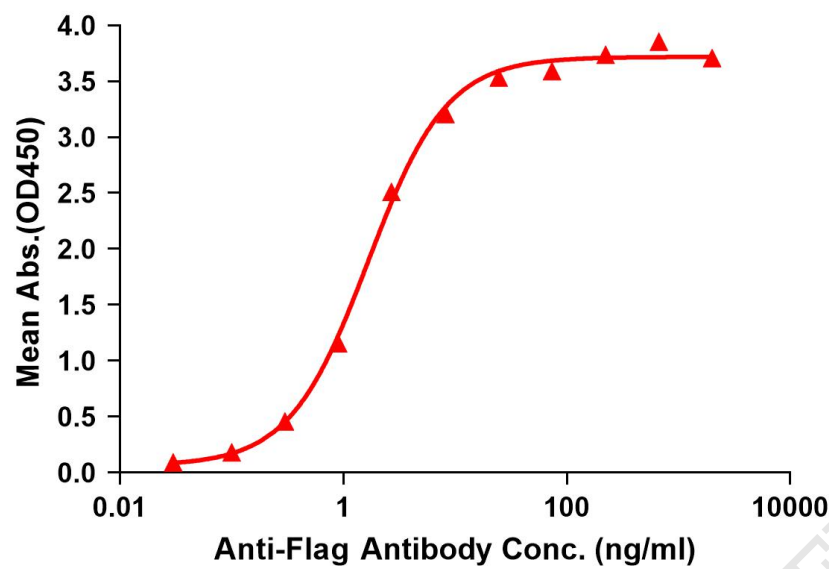


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag LSHR-Strep-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with LSHR-Strep-nanodisc is 1.672ng/ml.

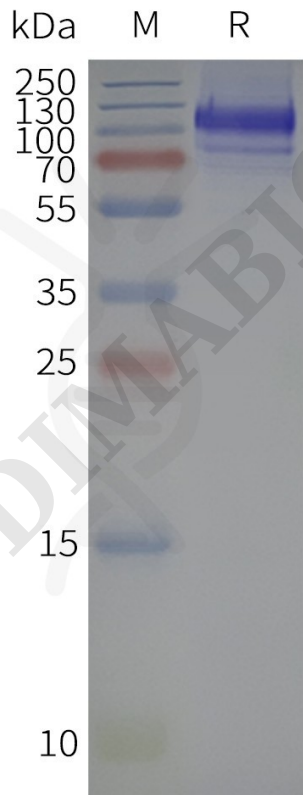


Figure 2. Human LSHR-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

