

PRODUCT INFORMATION

Target	TSHR
Synonyms	CHNG1; hTSHR-I; LGR3
Description	Human TSHR full length protein-synthetic nanodisc
Delivery	In Stock
Uniprot ID	P16473
Expression Host	HEK293
Protein Families	Druggable Genome, GPCR, Transmembrane
Protein Pathways	Autoimmune thyroid disease, Neuroactive ligand-receptor interaction
Molecular Weight	The human full length TSHR protein has a MW of 86.8 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 pH lower than 6.5 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 protein is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothopin and thyrostimulin, and its activity is mediated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism.
Usage	Research use only



ELISA assay to evaluate TSHR-Nanodisc 0.2 μ g Human TSHR-Nanodisc per well

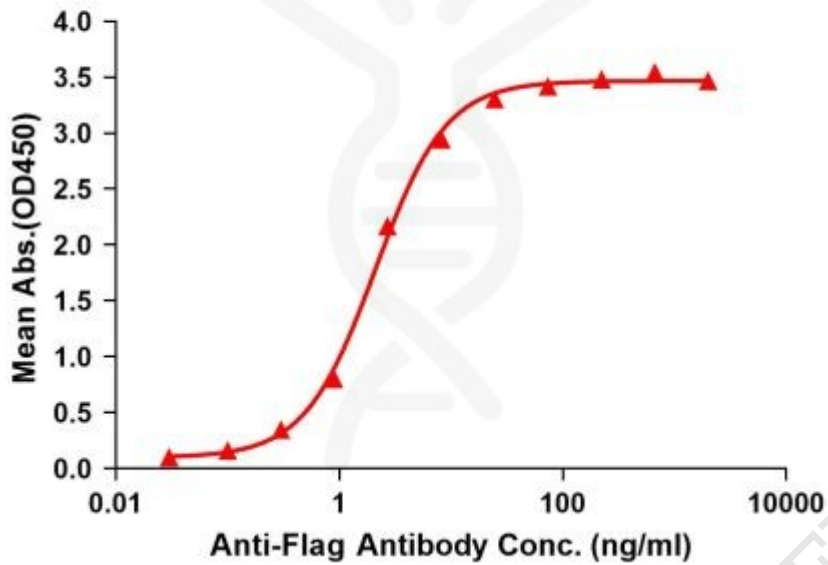


Figure1. Elisa plates were pre-coated with Flag Tag TSHR-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TSHR-Nanodisc is 2.108ng/ml.



Figure2. Human TSHR-Nanodisc, Flag Tag on SDS-PAGE

