**Delivery** 

**Uniprot ID** 

**Background** 

**Expression Host** 



## **PRODUCT INFORMATION**

**Target TSHR** 

**Synonyms** CHNG1; hTSHR-I; LGR3

Human TSHR full length protein-synthetic **Description** 

nanodisc In Stock P16473

**Protein Families** Druggable Genome, GPCR, Transmembrane Autoimmune thyroid disease, Neuroactive ligand-

**Protein Pathways** receptor interaction

The human full length TSHR protein has a MW of **Molecular Weight** 

86.8 kDa

**HEK293** 

Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before Formulation & Reconstitution lyophilization. Please see Certificate of Analysis

for specific instructions. Do not use solvents with pH lower than 6.5 in subsequent experiments. 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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

The protein is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is mediated by

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adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism.

**Usage** Research use only





## ELISA assay to evaluate TSHR-Nanodisc 0.2µg Human TSHR-Nanodisc per well

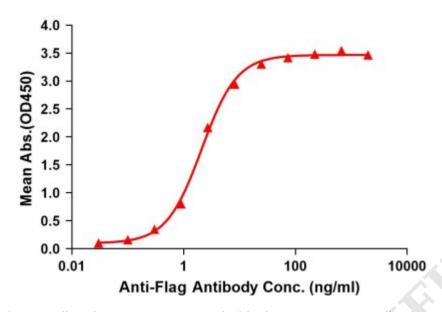


Figure 1. Elisa plates were pre-coated with Flag Tag TSHR-Nanodisc ( $0.2\mu g/per$  well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TSHR-Nanodisc is 2.108 ng/ml.

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Figure 2. Human TSHR-Nanodisc, Flag Tag on SDS-PAGE