

PRODUCT INFORMATION

C-Flag&Strep Tag Tag

TSHR Target

Synonyms CHNG1; hTSHR-I; LGR3

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

nanodisc **Delivery** In Stock **Uniprot ID** P16473

Expression Host HEK293

Protein Families Druggable Genome, GPCR, Transmembrane

Autoimmune thyroid disease, Neuroactive ligand-**Protein Pathways**

receptor interaction

The human full length TSHR-Strep protein has a **Molecular Weight**

MW of 86.8 kDa

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

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).

Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

The protein is a membrane protein and a major controller of thyroid cell metabolism. The

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encoded protein is a receptor for thyrothropin 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 Conjugate Unconjugated

Background



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

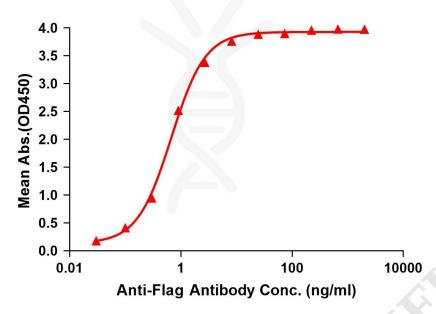


Figure 1. Elisa plates were pre-coated with C-Flag&Strep Tag TSHR-Strep-Nanodisc (0.2 μ g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TSHR-Strep-nanodisc is 0.676ng/ml.

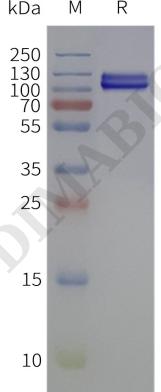


Figure 2. Human TSHR-Strep-Nanodisc, C-Flag&Strep Tag on SDS-PAGE

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