# HUMAN TSHR FULL LENGTH PROTEIN-PEPTINANODISC

**Cat.#:** 11026-1
**Product Name:** Human TSHR full length protein-PeptiNanodisc
**Size :** 10 µg, 50 µg and 100 µg
**Synonyms:** CHNG1; hTSHR-I; LGR3
**Target:** TSHR
**UNIPROT ID:** P16473
**Description:** Human TSHR full length protein-synthetic nanodisc
**Background:** 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 adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism.
**Species/Host:** HEK293
**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.
**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.

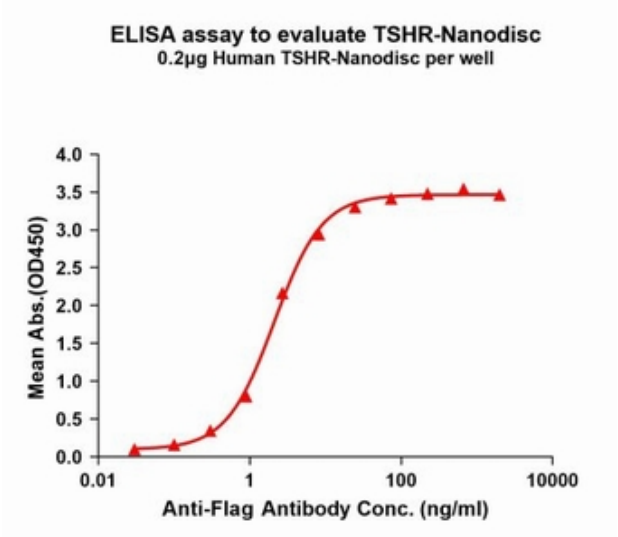


Figure1. Elisa plates were pre-coated with Flag Tag TSHR-Nanodisc (0.2 μg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with TSHR-Nanodisc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

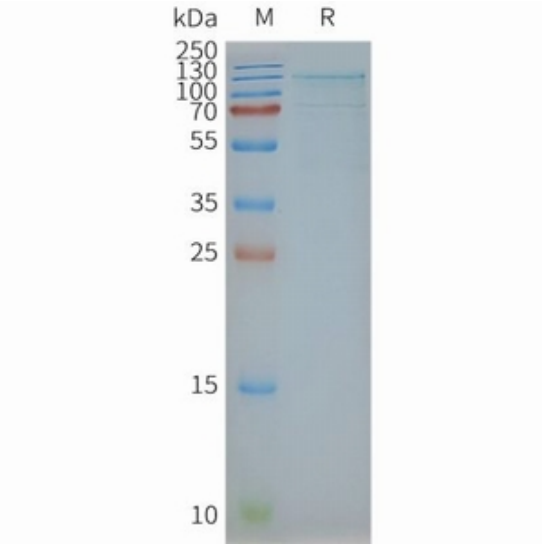


Figure2. Human TSHR-Nanodisc, Flag Tag on SDS-PAGE