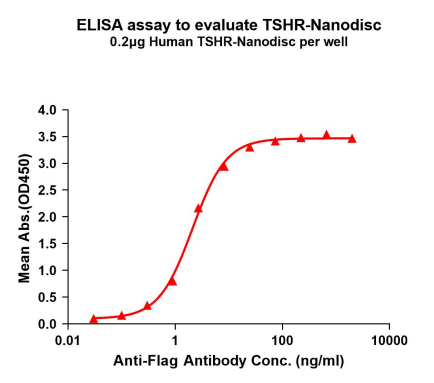
VLP/Nanodisc | Full-Length | HuPro®

TSHR (Human) Recombinant Protein

Catalog # P10780 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

ELISA plates were pre-coated with Flag Tag TSHR-Nanodisc (0.2 ug/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before ELISA reading. From above data, the EC_{50} for anti-Flag monoclonal antibody binding with TSHR-Nanodisc is 2.108 ng/mL.

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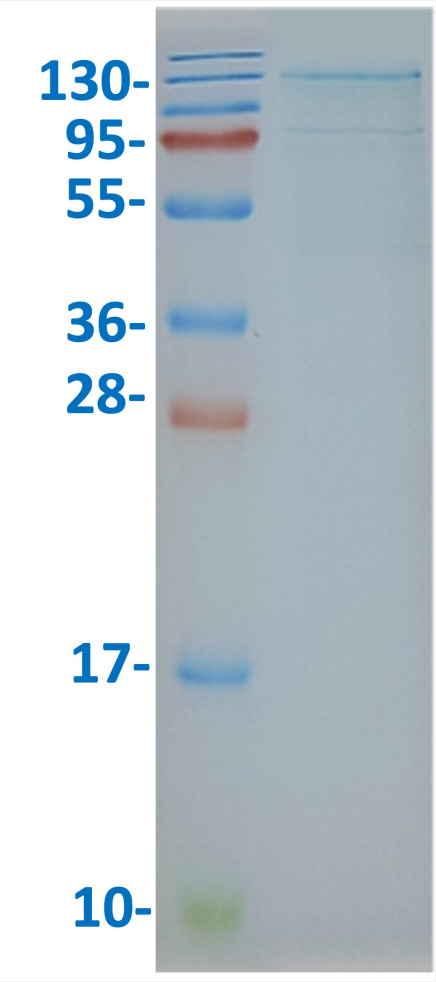

SDS-PAGE

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

Specification

Product Description	Human TSHR (P16473, 1 a.a. - 764 a.a.) full-length recombinant protein-Nanodisc.
Sequence	MRPADLLQLVLLLDLPRDLGGMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTI PSHAFSNLPNISRIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGL KMFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYAFNGTKLDAVY LNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIARNTWTLKKLPLSLSFLHLT RADLSYPSHCCAFKNQKKIRGILESLMCNESSMQSLRQRKSVNALNSPLHQEYEENLGDSIVGYK EKSKFQDTHNNAHYYVFFEEQEDEIIGFGQELKNPQEETLQAFDSHYDYTICGDSEDMVCTPKSD EFNPCEDIMGYKFLRIVVWFVSLLALLGNVFVLLILLTSHYKLNVPRFLMCNLAFADFCMGMYLLLIA SVDLYTHSEYYNHAIDWQTGPGCNTAGFFTVFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHA CAIMVGGWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTLNIVAFVIVCCCYVKIYITV RNPQYNPGDKDTKIAKRMAVLIFTDFICMAPISFYALSAILNKPLITVSNSKILLVLFYPLNSCANPFLY AIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQVQKVTHEMRQGLHNMEDVYELIEN SHLTPKKQGQISEEYMQTVL
Host	Human
Theoretical MW (kDa)	86.8

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Reactivity	Human
Form	Lyophilized
Conjugation	Unconjugated
Preparation Method	Mammalian cell (HEK293) expression system
Recommend Usage	ELISA SDS-PAGE
Storage Buffer	Lyophilized from 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 (5% trehalose).
Storage Instruction	Store at -20°C to -80°C for 12 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Enzyme-linked Immunoabsorbent Assay

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- SDS-PAGE

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

Gene Info — TSHR

Entrez GeneID	7253
Protein Accession#	P16473
Gene Name	TSHR
Gene Alias	CHNG1, LGR3, MGC75129, hTSHR-I
Gene Description	thyroid stimulating hormone receptor
Omim ID	603372 603373 609152
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a membrane protein and a major controller of thyroid cell met abolism. The encoded protein is a receptor for thyrothropin and thyrostimulin, and its activity is me diated by adenylate cyclase. Defects in this gene are a cause of several types of hyperthyroidism. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	seven transmembrane helix receptor|thyroid stimulating hormone receptor, isoform 2|thyrotropin r eceptor|thyrotropin receptor-I, hTSHR-I

Pathway

- Autoimmune thyroid disease
- Neuroactive ligand-receptor interaction

Disease

- Abortion
- Congenital Hypothyroidism
- Connective Tissue Diseases
- Fetal Diseases
- Genetic Predisposition to Disease
- Goiter
- Graves Disease
- Graves Ophthalmopathy
- Hashimoto Disease
- Hypertension
- Hypothyroidism
- Infection
- Infertility
- Inflammation
- Insulin Resistance

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- Mitral Valve Prolapse
- Musculoskeletal Diseases
- Pancreatic cancer
- Pancreatic Neoplasms
- Pregnancy Complications
- Premature Birth
- Skin Diseases
- Thyroid Diseases
- Thyroid Neoplasms
- Thyroid Nodule
- Thyroiditis
- Thyrotoxicosis
- Tobacco Use Disorder

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