

Proteoliposomes

Full-Length

TSHR (Human) Recombinant Protein

Catalog # H00007253-G01

Size 10 ug

Specification

Product Description

Human TSHR full-length ORF (AA156780.1) recombinant protein without tag.
This product is belong to Proteoliposome (PL).

Sequence

MRPADLLQLVLLLDLPRDLGGMGCSPPCECHQEEDFRVTCKDIQRISLPPSTQTLKLIETHLRTI
PSHAFSNLPNISRIYVSIDVTLLQQLSHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGL
KMFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYAFNGTKLDAVY
LNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIARNTWTLKKPLSLSFLHLT
RADLSYPSHCCAFKNQKKIRGILESMLCNESSMQSLRQRKSVNALNSPLHQEYEENLGDSIVGYK
EKSKFQDTHNNAHYVFFEEQEDEIIGFGQELKNPQEETLQAFDSHYDYTCGDSEDMVCTPKSD
EFNPCEDIMGYKFLRIVVWFVSLALLGNVFLILLTSHYKLNVPRLMCNLAFADFCMGMYLLLIA
SVDLYTHSEYNNHAIDWQTGPGCNTAGFFTTFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHA
CAIMVGGWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYVFLTLNVAFVIVCCCIVKIMTV
RNPQYNPGDKDTKIAKRMVLIPTDFICMAPISFYALSAILNKPLITVSNKILLVLFYPLNSCANPFLY
AIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQVQKVTHEMRQGLHNMEDVYELIEN
SHLTPKKQGQISEEYMQTVL

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

84.04000000000001

Interspecies Antigen Sequence

Mouse (87)

Form

Liquid

Preparation Method

[in vitro wheat germ expression system with proprietary liposome technology](#)

Purification

None

Recommend Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

Storage Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Antibody Production

Gene Info — TSHR

Entrez GeneID [7253](#)

GeneBank Accession# [BC156779.1](#)

Protein Accession# [AAI56780.1](#)

Gene Name TSHR

Gene Alias CHNG1, LGR3, MGC75129, hTSHR-I

Gene Description thyroid stimulating hormone receptor

Omim ID [603372](#) [603373](#) [609152](#)

Gene Ontology [Hyperlink](#)

Gene Summary The protein encoded by this gene is a membrane protein and a major controller of thyroid cell metabolism. The encoded protein is a receptor for thyrotropin and thyrostimulin, and its activity is mediated 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 receptor|thyrotropin receptor-I, hTSHR-I

Publication Reference

- [Thyrotropin Receptor Antibody \(TRAb\)-IgM Levels Are Markedly Higher Than TRAb-IgG Levels in Graves' Disease Patients and Controls, and TRAb-IgM Production Is Related to Epstein-Barr Virus Reactivation.](#)

Kumata K, Nagata K, Matsushita M, Kuwamoto S, Kato M, Murakami I, Fukata S, Hayashi K.

Viral Immunology 2016 Oct; 29(8):459.

Application: ELISA, Human, Serum

- [Reactivation of persistent Epstein-Barr virus \(EBV\) causes secretion of thyrotropin receptor antibodies \(TRAbs\) in EBV-infected B lymphocytes with TRAbs on their surface.](#)

Nagata K, Nakayama Y, Higaki K, Ochi M, Kanai K, Matsushita M, Kuwamoto S, Kato M, Murakami I, Iwasaki T, Nanba E, Kimura H, Hayashi K.

Autoimmunity 2015 Mar; 48(5):328.

Application: Flow Cyt, Human, Peripheral blood mononuclear cells

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](#)

- [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](#)