

# Recombinant Human TSHR

**Cat. No.** TSHR-3451H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human TSHR (66 kDa) protein was expressed in E. coli with His-tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | 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 thyrothrin 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.                                                                                                                                                                                                 |
| <b>Form</b>             | Each vial contains Tris-HCl (pH7.4 ± 0.2), with 0.02% NaN <sub>3</sub> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | 66 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>AA Sequence</b>      | <p>GMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTIPSHAFSNLPNIS<br/> RIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGLK<br/> MFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYAFN<br/> GTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIARN<br/> TWTLKKLPLSLSLHLTRADLSYP SHCCAFKNQKKIRGILESLMCNESSMQSLRQRK<br/> SVNALNSPLHQEYEENLGDSIVGYKEKSKFQDTHNNAHYVFFEEQEDEIIGFGQEL<br/> KNPQEETLQAFDSHYDYTCGDSEDMVCTPKSDEFNPCEDIMGYKFLRIVVWFVSL<br/> ALLGNVFLILLTSHYKLVPRFLMCNLAFADFCMGMYLIIASVDLYTHSEYYNHAI<br/> DWQTGPGCNTAGFFTVFASLSVYTLTVITLERWYAITFAMRLDRKIRLRHACAIMVG</p> |

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GWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTNLIVAFVIVCCCYYVKIY  
 ITVRNPQYNPGDKDTKIAKRMVLIPTDFICMAPISFYALSAILNKPLITVSNSKILLVLF  
 YPLNSCANPFLYAIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQVQKV  
 THEMROGLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL

**Purity** > 90%

**Applications** ELISA, SDS-PAGE

**Storage** Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

**Gene Name** TSHR thyroid stimulating hormone receptor [ Homo sapiens (human) ]

**Official Symbol** TSHR

**Synonyms** TSHR; LGR3; CHNG1; hTSHR-I; thyroid stimulating hormone receptor; thyrotropin receptor; thyrotropin receptor-I, hTSHR-I; seven transmembrane helix receptor; thyroid stimulating hormone receptor, isoform 2

**Gene ID** 7253

**mRNA Refseq** NM\_000369

**Protein Refseq** NP\_000360

**MIM** 603372

**UniProt ID** P16473

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