

# 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 thyrothopin 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>GMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLR TIPSHAFSNLPNIS  RIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGLK  MFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYAFN  GTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIARN  TWTLKKLPLSLSFLHLTRADLSYP SHCCAFKNQKKIRGILESLMCNESSMQSLRQRK  SVNALNSPLHQEYEENLGD SIVGYKEKSKFQDTHNNAHYVFFEEQEDEIIGFGQEL  KNPQEETLQAFD SHYDY TICGDSEDMVCTPKSDEFNPCEDIMGYKFLRIVVWFVSL  ALLGNVFLILLITSHYKLVNPRFLMCNLAFADFCMGM YLLLIASVDLYTHSEYYNHAI  DWQTGPGCNTAGFFTVFA SELSVYTLTVITLERWYAITFAMRLDRKIRLRHACAIMVG</p>

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GWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTNLNIVAFVIVCCCYVKIY  
 ITVRNPQYNPGDKDKTKIAKRMAVLIFTDFICMAPISFYALSAILNKPLITVSNSKILLVLF  
 YPLNSCANPFLYAIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQVQKV  
 THEMQRQLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL

<b>Purity</b>	> 90%
<b>Applications</b>	ELISA, SDS-PAGE
<b>Storage</b>	Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

## GENE INFORMATION

<b>Gene Name</b>	TSHR thyroid stimulating hormone receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	TSHR
<b>Synonyms</b>	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
<b>Gene ID</b>	7253
<b>mRNA Refseq</b>	NM_000369
<b>Protein Refseq</b>	NP_000360
<b>MIM</b>	603372
<b>UniProt ID</b>	P16473