



# Recombinant Human TSHR Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08557

**Protein Name:** Htshr-Tsh Receptor (TSHR)

**Aliases:** LGR3; CHNG1; hTSHR-TSH receptor; thyrotropin receptor; thyroid stimulating hormone receptor

**UniProt ID:** P16473

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P16473/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** Baculovirus

**Protein Length:** Partial (21-413aa)

**Molecular Weight:** 48.7 kDa

**Protein Tag:** C-terminal 10xHis-tagged

## 2. Amino Acid Sequence (21-413aa)

GMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTIPSHAFSNLPNI  
SRIYVSDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGL  
KMFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYA  
FNGTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIA  
RNTWTLKKLPLSLSFLHLTRADLSYP SHCCAFKNQKKIRGILES LMCNESSMQSLRQ  
RKSVALNSPLHQEYEENLGDSIVGYKEKSKFQDTHNNAHYVFFEEQEDEIIGFG  
QELKNPQEETLQAFDSHYDYTCGDSSEDMVCTPKSDEFNPCEDIMG

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).

**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.



## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human TSHR partial protein (21-413aa) expressed in Baculovirus. The protein is with 10xHis tag at the C-terminus, which facilitates protein purification, detection and identification. TSHR, also known as LGR3 or CHNG1 or hTSHR-TSH receptor, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.