

# Recombinant Human TSHR Protein

Catalog No.: RP03264 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7253	P16473

### Tags

C-His

### Synonyms

Thyrotropin receptor; Thyroid-stimulating hormone receptor; TSHR; TSH-R; LGR3; CHNG1; TSHR-I

## Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
46.1 kDa	50-60 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of 50 mM Tris, 150 mM NaCl, 10% Glycerol, 1 mM TCEP, pH 7.5. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

## Background

Thyroid-stimulating hormone receptor (TSHR) is the receptor for the thyroid-stimulating hormone (TSH) or thyrotropin. TSH is secreted by the pituitary gland and promotes thyroid growth and function, with increased TSH levels typically associated with hypothyroidism. The activity of TSHR is mediated by G proteins which activate adenylate cyclase.

## Basic Information

### Description

Recombinant Human TSHR Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Gly21-Gly413) of human TSHR (Accession #NP\_000360.2) fused with His tag at the C-terminus.

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

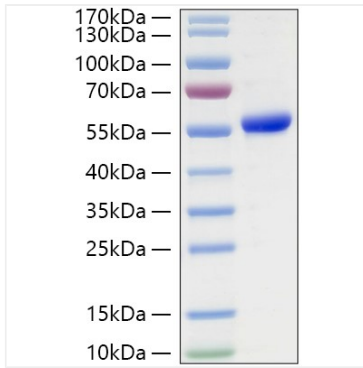
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.



## Validation Data

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Recombinant Human TSHR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.