

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% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 46.1 kDa | 50-60 kDa |

Endotoxin

< 1.0 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.

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

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.

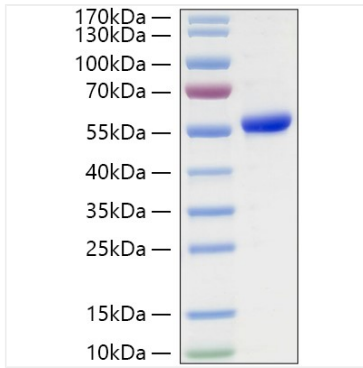
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Validation Data



Recombinant Human TSHR Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-60 kDa.