Recombinant Human TSHR Protein

Catalog No.: RP03264

Sequence Information

Species
Human

Gene ID
7253

Swiss Prot
P16473

Tags
C-His

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

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 85 % as determined by SDS-PAGE.

Calculated MW
46.1 kDa

Observed MW
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 stablizer (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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

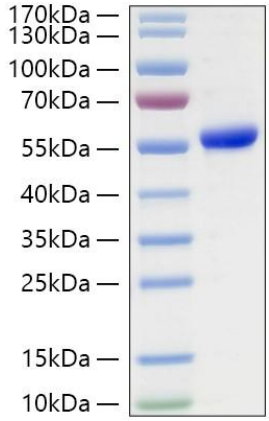
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



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