

TSHR recombinant protein

TSHR Protein, Human, Recombinant (ECD, His Tag)

CATALOG #
AAA258058

HOST
Baculovirus-Insect Cells

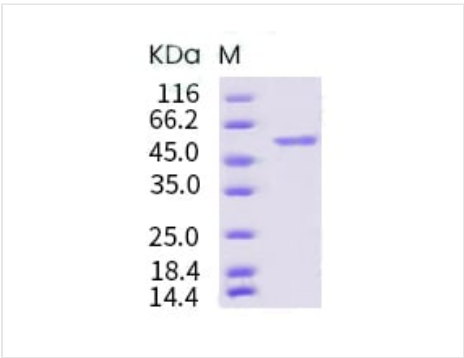
PRODUCT SYNONYMS

TSHR; TSHR Protein; Human; Recombinant (ECD; His Tag); Human TSH Receptor/TSHR (His Tag); CHNG1 Protein; hTSHR-I Protein; LGR3 Protein; TSH Receptor Protein; TSHR recombinant protein

PRODUCT SPECIFICATIONS

Host	Baculovirus-Insect Cells
Purity/Purification	>85% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 150mM NaCl, 10% Glycerol, 1mM TCEP, pH7.5. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Gly21-Gly4 13
Source	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Gly
Tag	C-His
Protein Construction	A DNA sequence encoding the human TSHR (NP_000360.2)(Gly21-Gly413) was expressed with a polyhistidine tag at the C-terminus.
Reconstitution	It is recommended that sterile water (1600 ul) be added to the vial to concentration is mesured by UV-Vis.
Molecular Mass	The recombinant human TSHR consists of 404 amino acids and predicts a molecular mass of 46.1 kDa. It migrates as an approximately 56.6 kDa band in SDS-PAGE under reducing conditions.
Reconstitution	It is recommended that sterile water (800ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is mesured by UV.
Preparation and Storage	Samples are stable for twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

IMAGES



SDS-PAGE
Human TSH Receptor/TSHR (His Tag)

ADDITIONAL INFORMATION

Related Product Information for TSHR recombinant protein	Background: Thyroid-stimulating hormone (TSH) is secreted by the pituitary gland and promotes thyroid growth and function, with increased TSH levels typically associated with hypothyroidism. Immunohistochemical analysis revealed predominantly nuclei/peri-nuclei localization of TSHR in cancerous tissues but cell membrane localization in non-cancerous parts. Overexpression of TSHR was found in a great majority of HCC tissues and associated with unfavorable prognosis.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	64085121
NCBI GeneID	7253
NCBI Accession #	NP_000360.2
NCBI GenBank Nucleotide #	NM_000369.2
UniProt Accession #	P16473; Q16503; Q8TB90; Q96GT6; Q9P1V4; Q9ULA3; Q9UPH3; A0PJU7; F5GYU5; G3V2A9
Molecular Weight	The recombinant human TSHR consists of 404 amino acids and predicts a molecular mass of 4631 kDa.
NCBI Official Full Name	thyrotropin receptor isoform 1
NCBI Official Synonym Full Names	thyroid stimulating hormone receptor
NCBI Official Symbol	TSHR
NCBI Official Synonym Symbols	LGR3; CHNG1; hTSHR-I
NCBI Protein Information	thyrotropin receptor; thyrotropin receptor-I, hTSHR-I; seven transmembrane helix receptor; thyroid stimulating hormone receptor, isoform 2
UniProt Protein Name	Thyrotropin receptor
UniProt Gene Name	TSHR
UniProt Synonym Gene Names	LGR3; TSH-R
UniProt Entry Name	TSHR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.