

Recombinant Human Thyroid Stimulating Hormone Beta

Cat. No. TSHB-51H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Thyroid Stimulating Hormone Beta was expressed in yeast.
Species	Human
Source	Yeast
Description	Thyrotropin-stimulating hormone (TSH) is a noncovalently linked glycoprotein heterodimer and is part of a family of pituitary hormones containing a common alpha subunit (TSHA) and a unique beta subunit that confers specificity. Using bovine TSHB cDNA as probe, Hayashizaki et al. (1985) cloned TSHB from human liver and leukocyte genomic DNA libraries. Human TSHB encodes a deduced protein consisting of a 20-amino acid signal sequence, a mature protein of 112 amino acids, and a C-terminal extension of 6 hydrophobic amino acids. Wondisford et al. (1988) also cloned the human TSHB gene. Wondisford et al. (1988) determined that the TSHB gene contains 3 exons, the first of which is noncoding. The rat TSHB gene also contains one 5-prime noncoding exon, whereas the mouse Tshb gene contains 3.
Form	Lyophilized from sterile 20mM PB, 240mM NaCl, PH6.0.
Endotoxin	< 1.0 eu per µg of the protein as determined by the LAL method.
Purity	>95 % as determined by SDS-PAGE
Applications	Western blotting, ELISA

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Storage Store it under sterile conditions at -20°C to -101°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

GENE INFORMATION

Gene Name [TSHB thyroid stimulating hormone, beta \[Homo sapiens \]](#)

Official Symbol TSHB

Synonyms TSHB; thyroid stimulating hormone, beta; thyrotropin subunit beta; thyrotropin beta chain; thyrotropin beta subunit; thyroid-stimulating hormone subunit beta; TSH-B; TSH-BETA;

Gene ID [7252](#)

mRNA Refseq [NM_000549](#)

Protein Refseq [NP_000540](#)

MIM [188540](#)

UniProt ID [P01222](#)

Chromosome Location 1p13

Pathway Amine-derived hormones, organism-specific biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;

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Function

hormone activity;

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