

# Native Human Thyroid Stimulating Hormone, Beta

**Cat. No.** TSHB-704H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Native human TSHB is purified Human pituitary glands.
<b>Species</b>	Human
<b>Source</b>	Human Pituitary Gland
<b>Description</b>	The four humanglycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), folliclestimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits of these hormones are identical, however, their beta chains are unique and confer biological specificity. Thyroid stimulating hormone functions in the control of thyroid structure and metabolism. The protein encoded by this gene is the beta subunit of thyroid stimulating hormone. Mutations in this gene result in congenital hypothyroidism.
<b>Form</b>	Lyophilized from 0.05 M ammonium bicarbonate.
<b>Concentration</b>	1.0 mg/mL
<b>Purity</b>	> 98% as determined by SDS-PAGE analysis
<b>Reconstitution</b>	Centrifuge vial prior to opening. Add 50 mM Tris, pH 7.5 to the vial to fully solubilize the protein to a concentration of 1-2 mg/ml.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.

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**OfficialSymbol** TSHB

## GENE INFORMATION

**Gene Name** TSHB thyroid stimulating hormone, beta [ Homo sapiens ]

**Synonyms** TSHB; thyroidstimulating hormone, beta; TSH-BETA; TSH-B; CHNG4; TSH-beta; Thyrotropinalfa; thyrotropin subunit beta; thyrotropin beta chain; thyrotropin betasubunit; thyroid-stimulating hormone subunit beta

**Gene ID** 7252

**mRNA Refseq** NM\_000549

**Protein Refseq** NP\_000540

**MIM** 188540

**UniProt ID** P01222

**Chromosome Location** 1p13

**Pathway** Amine-derivedhormones; Autoimmune thyroid disease; Class A/1 (Rhodopsin-like receptors); Galpha (s) signalling events; GPCR downstream signaling; GPCR ligand binding;Glycoprotein hormones; Hormone ligand-binding receptors; Metabolism;Metabolism of amino acids and derivatives; Neuroactive ligand-receptorinteraction; Peptide hormone biosynthesis; Signal Transduction; Signaling byGPCR; Thyroxine biosynthesis

**Function** hormone activity

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