

Recombinant human TSHB, His-tagged

Cat. No. TSHB-2427H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TSHB protein, fused to His-tag at N-terminus, was expressed in E.coli
Species	Human
Source	E.coli
Description	The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimmers 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. TSHB is the beta subunit of thyroid stimulating hormone. Mutations in this gene result in congenital hypothyroidism.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	15.9kDa (141aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSFCIPTEY TMHIERRECA YCLTINTTIC AGYCMTRDIN GKLFLPKYAL SQDVCTYRDF IYRTVEIPGCPLHVAPYFSY PVALSCKCGK CNTDYSDCIH EAIKTNCTK PQKSYLVGFS V
Purity	>85 % by SDS - PAGE

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Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml (determined by Bradford assay)
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;

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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;

Function

hormone activity;

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