

# Active Recombinant Human TSHB+TSHA co-expressed protein

**Cat. No.** TSHB-105H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human TSHB(Phe21-Val138)&TSH alpha(Ala25-Ser116) was expressed in CHO.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	21-138;25-116 a.a.
<b>Predicted N Terminal</b>	Ala25 (TSH alpha ) & Phe21 (TSH beta )
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Bio-activity</b>	Measured by its ability to induce cAMP accumulation in HEK293 human embryonic kidney cells transfected with human TSH R. Morgenthaler, N.G. et al. (1998) Horm. Metab. Res. 30:162. The ED50 for this effect is typically 0.25-1.5 ng/mL.
<b>Molecular Mass</b>	Predicted Molecular Mass: 10.2 (TSH alpha ), 13.5 (TSH beta ) kDa; SDS-PAGE: 15-29 kDa, reducing conditions.
<b>Endotoxin</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Avoid repeated freeze-thaw cycles.

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12 months from date of receipt, -20 to -70 centigrade as supplied.  
 1 month, 2 to 8 centigrade under sterile conditions after reconstitution.  
 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

**Reconstitution** Reconstitute at 100 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.

## 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

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