

Active Recombinant Human TSH protein, His-tagged

Cat. No. TSH-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TSH protein(P01215-1 (TSH alpha) & P01222-1 (TSH beta))(Phe 21 - Val 138 (TSH beta) & Ala 25 - Ser 116 (TSH alpha)), carried a polyhistidine tag at the C-terminus, is expressed from HEK293.
Species	Human
Source	HEK293
ProteinLength	21-138 aa(TSH beta) & 25-116 aa(TSH alpha)
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	The Human TSHR (Luc) HEK293 Reporter Cell was stimulated with serial dilutions of human TSH alpha/beta Heterodimer protein. The EC50 was approximately 0.4685 µg/mL.
Molecular Mass	The protein has a calculated MW of 28.4 kDa. The protein migrates as 43-48 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU per µg by the LAL method / rFC method.
Purity	>90% as determined by SDS-PAGE.
Storage	For long term storage, the product should be stored at lyophilized state at -20°C or

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lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.

Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

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