

Active Recombinant Human TSH protein, His-tagged

Cat. No. TSH-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TSH protein(P01215) (Ala25-Ser116) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; Active Recombinant Human TSH protein(P01222) (Phe21-Val138) was expressed in HEK293, constructed the plasmid 2. The two plasmids were co-expressed and the Human TSH alpha & beta Heterodimer was purified.
Species	Human
Source	HEK293
ProteinLength	21-138 aa& 25-116 aa
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	1.Label Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag) with biotin. Immobilized Recombinant Human TSH Receptor/TSHR (His Tag) at 2 µg/ml (100 µl/well) can bind biotinylated Recombinant Human TSH alpha & beta Heterodimer Protein, the EC50 is 150-450 ng/mL. 2.Loaded Recombinant Human TSHR Protein (Fc Tag) on proA Biosensor, can bind Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag) with an affinity constant of 70.7 nM as determined in BLI assay.
Molecular Mass	The recombinant heterodimer of Human TSH alpha & beta comprises 221 (103+118) amino acids and has a calculated molecular mass of 25.15 (11.65+13.50) KDa. The apparent molecular mass of human IL12B & IL23A heterodimer is approximately 22.6

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	kDa and 17.7 kDa respectively in SDS-PAGE. The molecular weight of this protein is around 26.8 kDa verified by SEC-MALS (Routinely tested).
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC. ≥ 95 % as determined by SEC-MALS.
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
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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