# Active Recombinant Human TSH protein, His-tagged, Biotinylated

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

## SPECIFICATION

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| **Product Overview** | Biotinylated 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 |
| **Conjugation/Label** | Biotin |
| **Form** | Lyophilized from sterile PBS, pH 7.4. |
| **Bio-activity** | Immobilized Recombinant Human TSH Receptor/TSHR (His Tag) at 2 μg/mL (100 μL/well) can bind Recombinant Human TSH alpha & beta Heterodimer Protein (His Tag), Biotinylated, the EC50 is 70-210ng/mL. |
| **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+13.5) KDa. The apparent molecular mass of human IL12B & IL23A heterodimer is approximately 24.5, 19 kDa and 15.7 kDa respectively in SDS-PAGE. The molecular weight of this |

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| | protein is around 29.6 kDa verified by SEC-MALS(Routinely tested). |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method |
| **Purity** | ≥ 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC. ≥ 90 % as determined by SEC-MALS(Routinely tested). |
| **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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