

Recombinant human TSH beta protein

Catalog Number: ATGP2427

PRODUCT INFORMATION

Expression system

E.coli

Domain

21-138aa

UniProt No.

P01222

NCBI Accession No.

NP_000540.2

Alternative Names

Thyrotropin subunit beta precursor, Thyroid stimulating hormone, beta, TSH-B, TSH-BETA

PRODUCT SPECIFICATION

Molecular Weight

15.9 kDa (141aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 10% glycerol, 0.4M Urea

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE, Denatured

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human TSHB protein, fused to His-tag at N-terminus, was

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expressed in E. coli

Amino acid Sequence

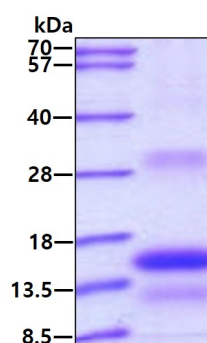
<MGSSHHHHHH SSGLVPRGSH MGS>FCIPTEY TMHIERRECA YCLTINTTIC AGYCMTRDIN GKLFLPKYAL SQDVCTYRDF
IYRTVEIPGC PLHVAPYFSY PVALSCKCGK CNTDYSDCIH EAIKTTYCTK PQKSYLVGFS V

General References

Hayashizaki Y., Miyai K.. et al. (1985). FEBS Lett. 188:394-400

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.