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## Product Data Sheet

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Product Name: TSHB Human  
 Cat. No.: GP21318  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TSHB		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSFCIPTEY TMHIERRECA YCLTINTTIC AGYCMTRDIN GKLFLPKYAL SQDVCTYRDF IYRTVEIPGC PLHVAPYFSY PVALSCKCGK CNTDYSDCIH EAIKTNYCTK PQKSYLVGFS V.		
Formulation	TSHB protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 0.4M Urea and 10% glycerol.		

### Introduction

TSHB is a hormone synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the T gland. Stimulates the gland to secrete the hormones (T4) and triiodothyronine (T3). Production is controlled by a Thyrotropin Releasing Hormone, (TRH), which is manufactured in the hypothalamus and transported to the Anterior Pituitary gland, where it increases production and release. Somatostatin is also produced by the hypothalamus, and has an opposite effect on the pituitary production, decreasing or inhibiting its release. The level of Thyroid hormones (T3 and T4) in the blood have an additional effect on the pituitary release of TSH, When the levels of T3 and T4 are low, the production is increased, and conversely, when levels of T3 and T4 are high, then production is decreased. This effect creates a regulatory negative feedback loop.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze thaw cycles.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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TSHB Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 141 amino acids (21-138 a.a) and having a molecular mass of 15.9kDa.

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