Recombinant Human Thyroid Stimulating Hormone

Cat. No. TSH-42H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Thyroid Stimulating Hormone was produced from yeast.
Species	Human
Source	Yeast
ProteinLength	TSH alpha (Ala25-Ser116); TSH beta (Phe21-Val138)
Description	Thyroid-stimulating hormone (TSH) is a hormone synthesized and secreted by thyrotrope cells in the anterior pituitary gland which regulates the endocrine function of the thyroid gland. TSH stimulates the thyroid gland to secrete the hormones thyroxine (T4) and triiodothyronine (T3).TSH 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 TSH production and release. Somatostatin is also produced by the hypothalamus, and has an opposite effect on the pituitary production of TSH, 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 of TSH is increased, and conversely, when levels of T3 and T4 are high, then TSH production is decreased.
Form	Lyophilized from sterile 20mM PB,240mM NaCl,PH6.0.
Endotoxin	< 1.0 eu per μg of the protein as determined by the LAL method.

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Purity	>95 % as determined by SDS-PAGE
Applications	Western blotting, ELISA
Storage	Store it under sterile conditions at -20℃ to -96℃ upon receiving.Recommend to aliquot the protein into smaller quantities for optimal storage.

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