

Thyroid Stimulating Hormone Active Protein | TSH active protein

Human Thyroid Stimulating Hormone

CATALOG #
AAA39027

HOST
Human pituitary glands

PRODUCT SYNONYMS

Thyroid Stimulating Hormone; Human Thyroid Stimulating Hormone; Glycoprotein hormones alpha chain; Anterior pituitary glycoprotein hormones common subunit alpha; Follicle-stimulating hormone alpha chain; FSH-alpha; Lutropin alpha chain; Luteinizing hormone alpha chain; LSH-alpha; Thyrotropin alpha chain; Thyroid-stimulating hormone alpha chain; TSH-alpha; Choriogonadotropin alpha chain; Chorionic gonadotrophin alpha subunit; CG-alpha; Thyrotropin subunit beta; Thyroid-stimulating hormone subunit beta; TSH-beta; TSH-B; Thyrotropin beta chain; Thyrotropin alfa; TSH active protein

PRODUCT SPECIFICATIONS

Host	Human pituitary glands
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Form/Format	Lyophilized from a concentrated (2.01mg/ml) solution containing 50mM ammonium bicarbonate.
Concentration	2.01mg/ml (varies by lot)
Source	Human pituitary glands
Solubility	It is recommended to reconstitute the lyophilized TSH in sterile 18M-cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	11.72 IU/mg vial by Centaur CP. Siemens Centaur CP is standardized against WHO 3rd IRP 81/565.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Preparation and Storage	Lyophilized TSH although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution TSH should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TSH active protein	Description: Thyroid Stimulating Hormone Human produced in Human pituitary glands is an important indicator of thyroid function. Used to monitor thyroid associated diseases. Introduction: Thyroid-stimulating hormone (also known as TSH or thyrotropin) 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. This effect creates a regulatory negative feedback loop.TSH is a glycoprotein and consists of two subunits, the alpha and the beta subunit.The a (alpha) subunit is identical to that of human chorionic gonadotropin (HCG), luteinising hormone (LH), follicle-stimulating hormone (FSH). The b (beta) subunit is unique to TSH, and therefore determines its function.
Product Categories/Family for TSH active protein	Hormones; Hormones; TSH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-pituitary-glands-tsh-active-protein/thyroid-stimulating-hormone/39027>