




## Native Bovine Thyroid Stimulating Hormone

Thyroid stimulating hormone (TSH) is a glycoprotein hormone secreted by the anterior pituitary gland. TSH has two subunits, the  $\alpha$  and the  $\beta$ . The  $\alpha$  subunit of TSH is similar to the  $\alpha$  subunit found in the LH, FSH and hCG glycoprotein hormones. However, the  $\beta$  subunit is specific and differs from hormone to hormone, and therefore determines its receptor specificity. The thyroid hormones are secreted and produced by the thyroid gland. The production of thyroid hormones is under the regulation of TSH. TSH stimulates the thyroid gland to secrete the hormone thyroxine (T<sub>4</sub>), which has only a slight effect on metabolism. T<sub>4</sub> is converted to triiodothyronine (T<sub>3</sub>), which is the active hormone that stimulates metabolism. TSH is secreted throughout life but particularly reaches high levels during the periods of rapid growth and development, as well as in response to stress.

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|------------------------|--|---------------------|----------------|
| <b>Cat.No.</b>         | TSH-1315B  | <b>Product Type</b> | Native protein |
| <b>Source</b>          | Bovine Pituitary Gland   | <b>Bio-Potency</b>  | 30 IU/mg       |
| <b>Quality Control</b> | FSH Contamination: 0.06%<br>LH Contamination: 0.008%<br>GH Contamination: 0.001%<br>PRL Contamination: 0.002%                          |                     |                |
| <b>Reconstitution</b>  | It is recommended to reconstitute the powder in physiological saline (pH 7.0) and 0.5% BSA is desirable to retard absorption to glass. |                     |                |
| <b>Storage</b>         | Prepare aliquots and store at < -20°C. Avoid freeze/thaw cycles.   |                     |                |

### Attention

This product is for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Find more information of recombinant TSH or TSH therapeutic protein on our website.

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