

## Active Native Bovine TSH Protein

Cat. No. TSH-1315B    Lot. No. (See product label)

### SPECIFICATION

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview     | Native bovine thyroid stimulating hormone was purified from bovine pituitary gland.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Species              | Bovine                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Source               | Bovine Pituitary Gland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description          | <p>The four human glycoprotein hormones chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH) are dimers 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. The protein encoded by this gene is the beta subunit of thyroid stimulating hormone. Mutations in this gene are associated with congenital central and secondary hypothyroidism and Hashimoto's thyroiditis.</p> |
| Bio-activity         | 30 IU/mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Quality Control Test | <p>FSH Contamination: 0.05%<br/>LH Contamination: 0.006%<br/>GH Contamination: 0.002%<br/>PRL Contamination: 0.001%</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage              | Prepare aliquots and store at < -20 centigrade. Avoid freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**Reconstitution**

It is recommended to reconstitute the powder in physiological saline (pH 7.0) and 0.5% BSA is desirable to retard absorption to glass.

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