

## CGA, TSHB

### Native Human Thyroid Stimulating Hormone Intact High Purity

<b>Catalog No.</b>	CRT504-100 CRT504-1000	<b>Quantity:</b>	100 µg 1 mg
<b>Alternate Names:</b>	Thyrotropic Hormone, Thyrotrophin, Thyrotropin, TSH, TTH, TSH-A, TSH-B		
<b>Description:</b>	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 (CGA), however, their beta chains are unique and confer biological specificity. Thyroid stimulating hormone functions in the control of thyroid structure and metabolism. The beta subunit of thyroid stimulating hormone is encoded by the gene TSHB.		
<b>UniProt ID:</b>	P01215 Glycoprotein hormones alpha chain P01222 Thyrotropin subunit beta		
<b>Source:</b>	Human pituitary glands		
<b>Molecular Weight:</b>	28 kDa		
<b>Formulation:</b>	Lyophilized from a solution in 50 mM Ammonium Bicarbonate		
<b>Purity:</b>	≥98% by SDS-PAGE		
<b>Contaminants:</b>	FSH: ≤ 0.5% hGH: ≤ 0.1% LH: ≤ 1.0% PRL: ≤ 0.1%		
<b>Specific Activity:</b>	≥ 5 IU/mg, by Accubind ELISA (calibrated to the WHO 2nd IRP 80/558 )		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute immediately before use with a neutral pH buffer of choice. Avoid extreme high and low pH.		
<b>Storage &amp; Stability:</b>	Upon receipt, store unopened vial at -20°C to -80°C for at least 1 year. After reconstitution, store in working aliquots at -20°C to -80°C for up to one year. <b>Avoid repeated freeze-thaw cycles.</b>		
<b>Non-Infectious Disease Statement:</b>	Non-reactive for HIV-1/HCV/HBV by NAT; HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.		

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