

CGA, TSHB

Native Human Thyroid Stimulating Hormone, High Purity

Catalog No.	CS078A CS078B	Quantity:	100 µg 1.0 mg
Alternate Names:	TSH, Thyrotropin		
Description:	Native Human Thyroid Stimulating Hormone is a heterodimeric glycoprotein hormone, comprised of an alpha and beta chain. The alpha chain is shared by glycoprotein hormones: LH, FSH, HCG. TSH is produced by thyrotrope cells in the anterior pituitary gland which regulates the thyroid to produce thyroxine (T ₄) which is converted to triiodothyronine (T ₃) in the thyroid, liver and other organs to stimulate 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.		
UniProt ID:	P01215, P01222		
Gene ID:	1081, 7252		
Source:	Human pituitary glands		
Molecular Weight:	Approximately 28 kDa		
Formulation:	Lyophilized from 50mM Ammonium Bicarbonate		
Purity:	≥ 95% by SDS-PAGE		
Specific Activity:	≥ 8.0 IU/mg, determined by ELISA.		
Reconstitution:	Pituitary hormones such as TSH are extremely labile in solution. Reconstitute immediately prior to use , at 1.0 mg/ml, in a physiologic solution such as PBS or TBS, at a neutral pH. Include a carrier protein such as 1% BSA. If your application precludes the use of a carrier protein, reconstitute product at 5 - 10 mg/ml. Avoid extreme high and low pH.		
Storage & Stability:	Store as supplied for up to 1 year at -20°C to -80°C. It is recommended to use the product immediately following reconstitution. If storage is necessary following reconstitution, prepare single-use aliquots and immediately store at -80°C for up to 3 months. Avoid repeated freeze/thaw cycles.		
Certification:	Serum from donors has been tested and found to be negative for HIV-1/HIV-2, Hepatitis B Core Antigen, Hepatitis B Surface Antigen, Hepatitis C Virus and Syphilis by current FDA approved methods. However, because no test method can offer complete assurance that HIV, HBsAg, HCV, Syphilis or other infectious agents are absent, this material should be handled at the Bio-safety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com