

## CGA/LHB

### Native Human Luteinizing Hormone, High Purity

<b>Catalog No.</b>	CS084A CS084B	<b>Quantity:</b>	100 µg 1.0 mg
<b>Alternate Names:</b>	LH, lutropin subunit beta, interstitial cell-stimulating hormone, ICSH		
<b>Description:</b>	Human Luteinizing Hormone, LH, is a heterodimer glycoprotein. The alpha subunits of LH, FSH, TSH, and hCG are identical, the beta subunits vary. LH has a beta subunit of 120 amino acids that confers its specific biologic action. This beta subunit contains an amino acid sequence that exhibits large homologies with that of the beta subunit of hCG and both stimulate the same receptor. However, the hCG beta subunit contains an additional 24 amino acids, and the two hormones differ in the composition of their sugar moieties that affects bioactivity and half-life.		
<b>UniProt ID:</b>	P01215, P01229		
<b>Gene ID:</b>	1081, 3972		
<b>Activity:</b>	> 8500 IU/mg by ELISA		
<b>Source:</b>	Human Pituitary Glands		
<b>Molecular Weight:</b>	Approximately 29 kDa		
<b>Formulation:</b>	Lyophilized from 50mM Ammonium Bicarbonate		
<b>Purity:</b>	≥ 95% by SDS-PAGE		
<b>Reconstitution:</b>	<b>Pituitary hormones are extremely labile in solution. Reconstitute immediately prior to use. Centrifuge vial prior to opening to consolidate the solids.</b> Add buffer directly to the vial to yield a concentration of 1.0 mg/ml. Use 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. <b>Avoid extreme high and low pH.</b>		
<b>Storage &amp; Stability:</b>	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. <b>Avoid repeated freeze/thaw cycles.</b>		
<b>Infectious Disease Statement:</b>	Negative or non-reactive at the donor level for anti-HIV 1 and 2, anti-HCV, HBsAg, HCV NAT, HIV-1 NAT and syphilis by FDA approved methods.		

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

