

CGA/LHB

Native Human Luteinizing Hormone, High Purity

Catalog No.	CS084A	Quantity:	100 µg
	CS084B		1.0 mg

Alternate Names: LH, lutropin subunit beta, interstitial cell-stimulating hormone, ICSH

Description: 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.

UniProt ID: P01215, P01229

Gene ID: 1081, 3972

Activity: > 8500 IU/mg by ELISA

Source: Human Pituitary Glands

Molecular Weight: Approximately 29 kDa

Formulation: Lyophilized from 50mM Ammonium Bicarbonate

Purity: ≥ 95% by SDS-PAGE

Reconstitution: **Pituitary hormones are extremely labile in solution.** Reconstitute immediately prior to use, at 1.0 mg/ml, in a physiologic solution such as PBS or TBS. 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