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CGB3
Native Human Chorionic Gonadotropin Beta Subunit

Catalog No.	CSI19633A CSI19633B	**Quantity:**	100 µg 1 mg

Alternate Names: Choriogonadotropin subunit beta 3, Choriogonadotropin subunit beta, CG-beta, beta-hCG

Description: Native Human Chorionic Gonadotropin Beta (CGB) is a hormone normally found in the blood and urine during pregnancy. Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. CGB is produced by the trophoblastic cells of the placenta and stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. CGB is encoded by 6 genes which are arranged in tandem and inverted pairs on chromosome 19q13.3 and contiguous with the Luteinizing Hormone (LH) beta subunit gene.

CGB may also be produced by some tumor cells. An increased level of CGB may be a sign of cancer of the testis, uterus, ovary, liver, stomach, pancreas, or lung. CGB may also be produced in response to certain conditions that are not cancer. CGB is being studied in the treatment of Kaposi's sarcoma.

UniProt ID: P0DN83

Gene ID: 1082

Source: Human Pregnancy Urine

Molecular Weight: 22.2 kDa

Formulation: Lyophilized from 50 mM ammonium bicarbonate

Purity: ≥ 95% by SDS-PAGE

Reconstitution: **Gonadotropins 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 at least 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.**

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

Infectious Disease Statement:

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.

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