

CGB3

Native Human Chorionic Gonadotropin subunit beta High Purity

Catalog No.	CSI13970A CSI13970B	Quantity:	100 µg 1.0 mg
Alternate Names:	beta hCG, CG-beta		
Description:	Human chorionic gonadotropin is a complex glycoprotein composed of two glycosylated subunits alpha and beta which are non-covalently associated. The alpha subunit is identical to those in the pituitary gonadotropin hormones (LH, FSH and TSH). The beta subunits are distinct in each of the hormones and confer receptor and biological specificity. Increased levels of beta hCG indicates an implanted blastocyst and mammalian embryogenesis. Human chorionic gonadotropin can be used as a tumor marker as the β subunit is secreted by some cancers including seminoma, choriocarcinoma, germ cell tumors, hydatidiform mole, teratoma with elements of choriocarcinoma, and islet cell tumor. For this reason, a positive result in males can be a test for testicular cancer.		
UniProt ID:	P0DN86		
Gene ID:	1082		
Activity:	1mg/mg by Absorbance at 280 nm		
Source:	Human Urine		
Molecular Weight:	Approximately 22 kDa		
Formulation:	Lyophilized from 50mM Ammonium Bicarbonate		
Purity:	≥98% 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 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.		

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