

CGA, CGB3

Native Human Chorionic Gonadotropin, High Purity

Catalog No.	CS077A CS077B	Quantity:	100 µg 1 mg
Alternate Names:	hCG; CGB3/GLHA		
Description:	HCG 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. HCG is one of the four human glycoprotein hormones: chorionic gonadotropin (CG), luteinizing hormone (LH), follicle stimulating hormone (FSH), and thyroid stimulating hormone (TSH). They are dimers consisting of alpha and beta subunits that are associated noncovalently. The alpha subunits (GLHA) of these hormones are identical however, their beta chains are unique and confer biological specificity. The beta chain for HCG is the beta 3 subunit of chorionic gonadotropin (CGB3).		
Gene ID:	1081, 1082		
UniProtKB:	P01215, P0DN86		
Source:	Human Urine		
Molecular Weight:	Approximately 36 kDa		
Formulation:	Lyophilized from 50mM Ammonium Bicarbonate		
Purity:	≥ 95% by SDS-PAGE		
Biological Activity:	≥ 11,000 IU/mg, by ELISA, calibrated against the WHO International Standard code: 07/364		
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 HbsAg, Anti-HCV, Anti HIVab, HAV, HIV (PCR) by current FDA approved methods. However, because no test method can offer complete assurance, 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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