

hCG**DATA SHEET**

Catalogue Number	HOR-250
Synonyms	Chorionic gonadotropin beta polypeptide, CGB3, hCGB, Choriogonadotropin subunit beta, CG-beta, Chorionic gonadotrophin chain beta.
Introduction	Human chorionic gonadotropin (hCG) is a peptide hormone produced in pregnancy, that is made by the embryoon after conception and later by the syncytiotrophoblast(part of the placenta). Its role is to prevent the disintegration of the corpus luteumof the ovaryand thereby maintain progesterone production that is critical for a pregnancy in humans. hCG may have additional functions, for instance it is thought that it affects the immune tolerance of the pregnancy. Early pregnancy testing generally is based on the detection or measurement of hCG.
Description	Human Chorionic Gonadotropin is produced from a sterile preparation of placental glucoprotein urine of pregnant women having a total molecular mass of 36,700 Dalton. The hCG consists of 237 amino acids, a chain-92 amino acids and b chain-145 amino acids. The hCG is purified by proprietary chromatographic techniques.
Source	Urine of pregnant women.
Physical Appearance	Sterile Filtered White Lyophilized (freeze-dried) powder.
Formulation	The hCG was lyophilized with no additives.
Solubility	It is recommended to reconstitute the lyophilized Human Chorionic Gonadotropin in sterile 18MΩ-cm H ₂ O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized hCG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CG-beta should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Purity	Purity is 98%.
Biological Activity	The activity was found to be 5000 IU/mg.
Contaminants	Free of: HbsAg, Hepatitis B surface antigen and antibodies to HIV, Hepatitis C and HCV.
	Protein quantitation was carried out by two independent methods ¹ . UV spectroscopy at 280 nm using the absorbency value of 1.06 as the extinction coefficient for a 0.1%

References	<p>1. Title: Human Chorionic Gonadotropin Modulates Prostate Cancer Cell Survival after Irradiation or HMG CoA Reductase Inhibitor Treatment Publication: Published online before print October 18, 2006, doi: 10.1124/mol.106.031153 Molecular Pharmacology January 2007 vol. 71 no. 1 259-275</p> <hr/>
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Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium