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Human Chorionic Gonadotropin hCG

Product	Cat#	Package size
Human Chorionic Gonadotropin (hCG)	C6051.2500	2.5mg
Human Chorionic Gonadotropin (hCG)	C6051.5000	5.0mg
Human Chorionic Gonadotropin (hCG)	C6051.1010	10.0mg

Product description

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 embryo soon after conception and later by the syncytiotrophoblast (part of the placenta). Its role is to prevent the disintegration of the corpus luteum of the ovary and 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 post-menopausal women having a total molecular mass of 36,700 Dalton. CG-beta consists of 237 amino acids (an A-chain of 92 amino acids and a B-chain of 145 amino acids).

The hCG is purified by proprietary chromatographic techniques.

Source

Urine of post-menopausal women

Biological activity

The activity was found to be 5000 IU/mg.

Purity

Greater than 98% by SDS-PAGE and HPLC analysis.

Contaminents

Free of: HbsAg, Hepatitis B surface antigen and antibodies to HIV, Hepatitis C and HCV.

Amino acid sequence and dimers aggregates

The sequence of the first N-terminal amino acids was determined and was found to be Met-Ala-Ala-Glu-Pro.

Formulation

hCG was lyophilized with no additives.

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Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Stability

Lyophilized hCG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution hCG 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.

Reconstitution

It is recommended to reconstitute the lyophilized Human Chorionic Gonadotropin in sterile 18MΩ-cm H₂O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

Protein Content

Protein quantitation was carried out by two independent methods:

1. UV spectroscopy at 280nm using the absorbency value of 1.06 as the extinction coefficient for a 0.1% (1mg/mL) solution.
2. Analysis by RP-HPLC, using a standard solution of hCG as a Reference Standard.

Usage

This product is for research/laboratory usage only. It may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.