

Product Data Sheet

Product Name: hCG Protein

Cat. No.: GP21266

Product Data

Purity	>98%	Source	Urine of pregnant women.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Chorionic gonadotropin; hCG; CG.		
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.		

Formulation

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.

Biological Activity

The activity was found to be 5250 IU/mg.

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.

Background

Human Chorionic Gonadotropin is produced from a sterile preparation of placental glucoprotein urine

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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