

32-2041: hCG Native Protein

Alternative Name : Chorionic gonadotropin,hCG,CG.

Description

Source : Urine of pregnant women. 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. 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.

Product Info

Amount : 5 mg
Content : The hCG was lyophilized with no additives.
Storage condition : 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.

Application Note

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.

The activity was found to be 6167IU/mg.

