

Chorionic Gonadotrophin Reference standard

Cat. No. CGB-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The Standard was widely used for the calibration of assays to control the quality and potency of chorionic gonadotrophin (CG) used in the treatment of infertility in women and sometimes in men, and for the calibration of assays used in the diagnosis of pregnancy and a range of other clinical conditions.
Species	Human
Enzyme Unit	This preparation has dual unitage. Each ampoule contains 179 INTERNATIONAL UNITS for the calibration of immunoassays. For those users wishing to calibrate immunoassays in molar units, the preparation has also been assigned a unitage in molar terms of 0.39 nmol per ampoule. For the purposes of calibrating bioassays to control therapeutic preparations of CG, each ampoule contains 162 INTERNATIONAL UNITS per ampoule, based on the mean potency calculated in the collaborative study from bioassay estimates alone.
Usage	No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. For practical purposes each ampoule contains the same quantity of human chorionic gonadotrophin. The entire content of each ampoule should be completely dissolved in an accurately measured amount of buffer solution. The use of water to reconstitute ampoule contents is not recommended. The material has not been sterilized and the ampoules contain no bacteriostat.
Notes	This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from

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which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts.

Stability

They remain valid with the assigned potency and status until withdrawn or amended. Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities. Reference Materials should be stored on receipt as indicated on the label. In addition, once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

Storage

Unopened ampoules should be stored at –20°C. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

GENE INFORMATION

Gene Name

CGB chorionic gonadotropin, beta polypeptide [Homo sapiens];

Official Symbol

CGB

Synonyms

CGB; chorionic gonadotropin, beta polypeptide; choriogonadotropin subunit beta; CGB3; CG-beta; chorionic gonadotropin beta chain; chorionic gonadotrophin chain beta; chorionic gonadotropin beta subunit; chorionic gonadotropin beta 3 subunit; CGB5; CGB7; CGB8; hCGB;

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Gene ID	1082
mRNA Refseq	NM_000737
Protein Refseq	NP_000728
MIM	118860
UniProt ID	P01233
Chromosome Location	19q13.3
Pathway	Glycoprotein hormones, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Peptide hormone biosynthesis, organism-specific biosystem;
Function	hormone activity;