

Human Chorionic Gonadotropin, β Subunit

02/21

CATALOG NO:	P1714-100 100 μ g
ALTERNATE NAMES:	Choriogonadotropin subunit beta; chorionic gonadotropin chain beta; CG-Beta; HCGB; CGB; HCG
MOL. WT.	22 kDa
NCBI GENE ID:	93659
ACCESSION NO.:	P0DN86
PURITY:	\geq 95% by SDS-PAGE
SOURCE:	Human urine
AMINO ACID SEQUENCE:	Full length native protein (beta subunit only)
FORM:	Lyophilized powder
FORMULATION:	Lyophilized from 50 mM ammonium bicarbonate
RECONSTITUTION:	Reconstitute using neutral pH buffer of choice. Avoid extreme high and low pH.
SPECIFIC ACTIVITY:	Activity verified by Accubind ELISA.
STORAGE CONDITIONS:	Store at -20 °C. Avoid repeated freeze-thaw cycles.
DESCRIPTION:	Chorionic gonadotropin (CG) is produced by the trophoblastic cells of the placenta and stimulates the ovaries to release steroids essential for maintaining pregnancy. The four human glycoprotein hormones (CG, luteinizing hormone, follicle stimulating hormone, and thyroid stimulating hormone) are dimers consisting of alpha and beta subunits. The alpha subunits of these hormones are identical, while they each have unique beta subunits that allow the hormones to bind specific receptors on target cells to activate distinct downstream signaling pathways. The beta subunit of CG is encoded by six highly homologous genes which are arranged in tandem and inverted pairs on chromosome 19. Abnormalities in the CG beta subunit can cause ectopic pregnancy.
INFECTIOUS DISEASE TESTING:	Human donor material was tested and found to be negative for HIV-1 and HIV-2, HBsAg, HCV, syphilis, and HIV-1 antigen by current FDA approved methods.

RELATED PRODUCTS:

Chorionic Gonadotropin (CG), human (Cat. No. 4778)
Placental Lactogen, Human Recombinant (Cat. No. 4869)
Human Thyroid Stimulating Hormone (TSH) (Cat. No. P1031)
Chorionic Gonadotropin (hCG) (human) ELISA Kit (Cat. No. K7424)
Chorionic Gonadotropin (CG) Antibody (Cat. No. 5778)

FOR RESEARCH USE ONLY! Not to be used on humans.