

# Recombinant Human CGB therapeutic protein(Choriogonadotropin alfa)

**Cat. No.** CGB-P053H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human chorionic gonadotropin with 2 subunits, alpha = 92 residues, beta = 145 residues, each with N-and O-linked carbohydrate moieties linked to ASN-52 and ASN-78 (on alpha subunit) and ASN-13, ASN-30, SER-121, SER-127, SER-132 and SER-138 (on beta subunit). The primary structure of the alpha-chain of r-hCG is identical to that of the alpha-chain of hCG, FSH and LH.

**Species**      Human

**Description**      This gene is a member of the glycoprotein hormone beta chain family and encodes the beta 3 subunit of chorionic gonadotropin (CG). Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. CG is produced by the trophoblastic cells of the placenta and stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy. The beta subunit of CG is encoded by 6 genes which are arranged in tandem and inverted pairs on chromosome 19q13.3 and contiguous with the luteinizing hormone beta subunit gene. The expression product is the active ingredient of Novarel, Ovidrel, Pregnyl and Profasi.

**Molecular Mass**      25.8 Kda

**AA Sequence**      >Alpha chainAPDVQDCPECTLQENPFFSQPGAPILQCMGCCFSRAYPTPLRSKKTMLVQKNVTSESTCCVAKSYNRVTVMGGFKVENHTACHCSTCYHKS>Beta chainSK EPLRPRCRPINATLAVEKEGCPVCITVNTTICAGYCPTMTRVLQGVLPALPQVVCNY

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RDVRFESIRLPGCPRGVNPVVSYAVALSCQCALCRRSTTDCGGPKDHPLTCDDPRF  
 QDSSSSKAPPPSLPSPSRLPGPSDTPILPQ

**Endotoxin** < 1.0 EU per µg of the protein

**Purity** >95%

**Storage** Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoidrepeated freezing and thawing cycles.

**Alias** CGB; CGB3; CG-beta; CGB5; CGB7; CGB8; hCGB; Choriogonadotropin alfa

## 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;

**Gene ID** 1082

**mRNA Refseq** NM\_000737

**Protein Refseq** NP\_000728

**MIM** 118860

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<b>UniProt ID</b>	P01233
<b>Chromosome Location</b>	19q13.3
<b>Pathway</b>	Glycoprotein hormones, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem; Peptide hormone biosynthesis, organism-specific biosystem;
<b>Function</b>	hormone activity;

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