

CG beta 3 Protein, Human (HEK293, His)

Cat. No.:	HY-P7893
Synonyms:	rHuChoriogonadotropin subunit beta 3/CGB3, His; Choriogonadotropin subunit beta; CG-beta; Chorionic gonadotrophin chain beta; CGB3; CGB
Species:	Human
Source:	HEK293
Accession:	P0DN86 (S21-Q165)
Gene ID:	1082
Molecular Weight:	28-35 kDa

PROPERTIES

AA Sequence	<p> S K E P L R P R C R P I N A T L A V E K E G C P V C I T V N T T I C A G Y C P T M T R V L Q G V L P A L P Q V V C N Y R D V R F E S I R L P G C P R G V N P V V S Y A V A L S C Q C A L C R R S T T D C G G P K D H P L T C D D P R F Q D S S S S K A P P P S L P S P S R L P G P S D T P I L P Q </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Chorionic gonadotropin (CG) is a placental hormone that stimulates steroidogenesis and maintains the corpus luteum of pregnancy. CG comprises noncovalently bound α and β subunits that are encoded by separate genes. Southern blot analyses indicate that there are six CGβ genes and a single copy of the luteinizing hormone (LHP) gene clustered within a 60-kilobase (kb) region of chromosome 19. Transcriptional activation of the chorionic gonadotropin (CG) genes is linked to trophoblast differentiation. In a multistep process, cytotrophoblasts expressing only the alpha subunit differentiate into intermediates that coexpress the CG beta subunit^{[1][2]}.</p>
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REFERENCES

- [1]. J L Jameson, et al. Isolation and characterization of the human chorionic gonadotropin beta subunit (CG beta) gene cluster: regulation of transcriptionally active CG beta gene by cyclic AMP. Mol Cell Biol. 1988 Dec;8(12):5100-7.
- [2]. B L Strauss, et al. Expression of the beta subunit of chorionic gonadotropin in transgenic mice. J Biol Chem. 1994 Feb 18;269(7):4968-73.
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Caution: Product has not been fully validated for medical applications. For research use only.

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