

## CGB7 Protein, Human (sf9, His)

Cat. No.:	HY-P76820
Synonyms:	Choriogonadotropin subunit beta 7; CGB7
Species:	Human
Source:	Sf9 insect cells
Accession:	P0DN87 (M1-Q165)
Gene ID:	94027
Molecular Weight:	Approximately 25 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 <sub>2</sub> O.
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>The CGB7 Protein serves as the beta subunit of human chorionic gonadotropin (hCG), a complex glycoprotein composed of two glycosylated subunits, alpha and beta, which are non-covalently associated. The alpha subunit is identical to those found in pituitary gonadotropin hormones (LH, FSH, and TSH). Notably, the beta subunits are distinct in each of the hormones, conferring receptor and biological specificity. CGB7 plays an essential role in pregnancy and maternal adaptation, stimulating the ovaries to synthesize steroids crucial for maintaining pregnancy. It functions as a heterodimer, consisting of a common alpha chain identical in LH, FSH, TSH, and HCG, and a unique beta chain that imparts specificity to each hormone. Understanding the role of CGB7 contributes to our knowledge of reproductive physiology, with potential implications for fertility treatments and maternal health. Further exploration of CGB7's functions holds promise for enhancing our understanding of its contributions to the intricate processes of pregnancy and reproductive adaptation.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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