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# Recombinant human chorionic gonadotropin subunit beta/CGB protein

Catalog Number: ATGP2030

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

21-165aa

#### UniProt No.

P0DN86

#### **NCBI Accession No.**

NP 000728

### **Alternative Names**

Choriogonadotropin subunit beta precursor, CGB3, CGB5, CGB7, CGB8, Hcgb

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

17.9 kDa (168aa)

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

#### **Purity**

> 85% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE, Denatured

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CGB is a member of the glycoprotein hormone beta chain family and is 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. Recombinant human CGB protein,



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fused to His-tag at N-terminus, was expressed in E. coli.

# **Amino acid Sequence**

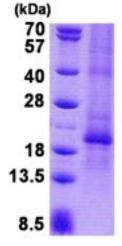
MGSSHHHHHH SSGLVPRGSH MGSSKEPLRP RCRPINATLA VEKEGCPVCI TVNTTICAGY CPTMTRVLQG VLPALPQVVC NYRDVRFESI RLPGCPRGVN PVVSYAVALS CQCALCRRST TDCGGPKDHP LTCDDPRFQD SSSSKAPPPS LPSPSRLPGP SDTPILPQ

# **General References**

Andrusiewicz M, Szczerba A, et al. (2011). J Transl Med. 9:130. Gregor CR, Cerasoli E, et al. (2011). J Biol Chem. 286(28):25016-26.

### **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

