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

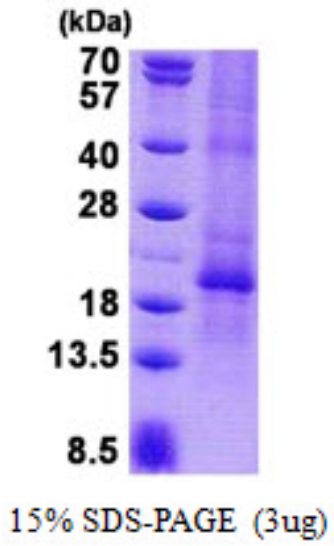
MGSSHHHHHH SSGLVPRGSH MGSSKEPLRP RCRPINATLA VEKEGCPVCI TVNTTICAGY CPTMTRVLQG VLPALPQVVC NYRDVRFESI RLPGCPRGVN PVVSYAVALS CQCALCRRST TDCGGPKDHP LTCDDPRFQD SSSSKAPPPS LPSPSRLPGP SDTPILPQ

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.