Recombinant human chorionic gonadotropin subunit beta/CGB protein

Catalog Number: ATGP3529

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
21-165aa

UniProt No.
P0DN86

NCBI Accession No.
NP_000728

Alternative Names
Choriogonadotropin subunit beta, CGB3, CGB, CGB5, CGB7, CGB8, hCGB

PRODUCT SPECIFICATION

Molecular Weight
16.6 kDa (154aa)

Concentration
0.25mg/ml (determined by BCA assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

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
CGB3, also known as choriogonadotropin subunit beta, is a member of the glycoprotein hormone beta chain family and encodes the beta 3 subunit of chorionic gonadotropin (CG). It stimulates the expression of GCM1 target genes, including the fusogenic protein syncytin-1, to promote placental cell fusion. It synthesized in large quantities by the developing placenta, reaching peak concentrations in maternal blood during the late first

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trimester and early midtrimester of pregnancy. It is expressed exclusively by trophoblasts. It is an important biomarker in pregnancy and oncology, where it is routinely detected and quantified by specific immunoassays. Recombinant human CGB3, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

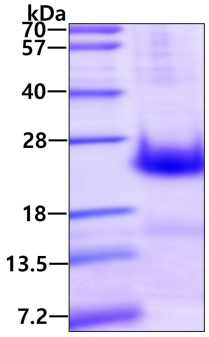
<ADP>SKEPLRP RCRPINATLA VEKEGCPVCI TVNTTICAGY CPTMTRVLQG VLPALPQVVC NYRDVRFESI RLPGCPRGVN PVVSYAVALS CQCALCRRST TDCGGPKDHP LTCDDPRFQD SSSSKAPPPS LPSPSRLPGP SDTPILPQ<HH HHHH>

General References

Cheong ML., et al. (2015) Mol Cell Biol. 36:197-209.
Gregor CR., et al. (2011) J Biol Chem. 286:25016-25026.

DATA

SDS-PAGE



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