

Human CGB7 Protein (His Tag)

Catalog Number: 13120-H08B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CG-beta-a; CGB6

Protein Construction:

A DNA sequence encoding the human CGB7 isoform 1 (P01233-1) (Met 1-Gln 165) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 96 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ser 21

Molecular Mass:

The secreted recombinant human CGB7 comprises 155 amino acids and has a predicted molecular mass of 17 kDa. The apparent molecular mass of rh CGB7 is approximately 25 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

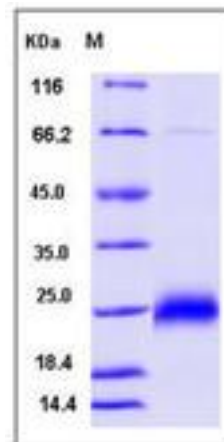
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CGB7 (chorionic gonadotropin, beta polypeptide 7) belongs to the glycoprotein hormones subunit beta family. Glycoprotein hormones are heterodimers consisting of a common alpha subunit and an unique beta subunit which confers biological specificity. CGB7 gene is a member of the glycoprotein hormone beta chain family and encodes the beta 7 subunit of chorionic gonadotropin (CG). 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. CGB7 is used as adjunctive therapy in the treatment of obesity. CGB7 also stimulates the ovaries to synthesize the steroids that are essential for the maintenance of pregnancy.

References

1.Fiddes J.C., *et al.*,(1980), The cDNA for the beta-subunit of human chorionic gonadotropin suggests evolution of a gene by readthrough into the 3'-untranslated region. *Nature* 286:684-687. 2.Talmadge K., *et al.*, (1984), Evolution of the genes for the beta subunits of human chorionic gonadotropin and luteinizing hormone. *Nature* 307:37-40. 3.Policastro P., *et al.*,(1983), The beta subunit of human chorionic gonadotropin is encoded by multiple genes. *J. Biol. Chem.* 258:11492-11499.

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