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Recombinant Human CGB7 Protein

Catalog No.: RP02874 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	94027	P0DN87

Tags
C-His

Synonyms
CGB7;CG-beta-a;CGB6

Product Information

Source	Purification
Baculovirus-Insect Cells	> 96% as determined by SEC-HPLC.

Calculated MW **Observed MW**

Endotoxin
<1EU/μg

Formulation
Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% gly.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

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.

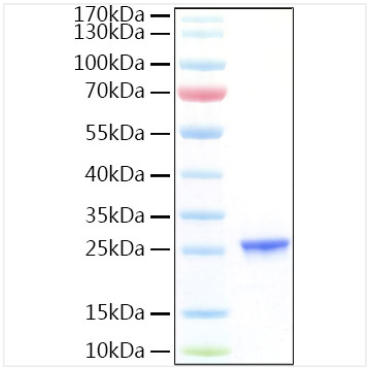
Basic Information

Description
Recombinant Human CGB7 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met1-Gln165) of human CGB7 (Accession #NP_149133.1) fused with 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80°C for 12 months.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human CGB7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25kDa.