
Product Data Sheet

Product Name: CGB3 Human
 Cat. No.: GP24499
 Batch No.: 1

Product Data

| | | | |
|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Sf9, Baculovirus cells. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | CGB3 CGB5 CGB8; CGB5; CGB7; CGB8; HCGB; CG-beta. | | |
| Amino Acid Sequence | ADPSKEPLRP RCRPINATLA VEKEGCPVCI TVNTTICAGY CPTMTRVLQG VLPALPQVVC NYRDVRFESI RLPGCPRGVN PVVSYAVALS CQCALCRRST TDCGGPKDHP LTCDDPRFQD SSSSKAPPPS LPSPSRLPGP SDTPILPQHH HHHH. | | |
| Formulation | CGB3 protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol. | | |

Introduction

CGB3, belongs to the glycoprotein hormone beta chain family. CGB3 encodes the beta 3 subunit. CGB3 stimulates the expression of GCM1 target genes, as well as the fusogenic protein syncytin-1, to promote placental cell fusion. Furthermore, CGB3 is synthesized in large quantities by the growing placenta, reaching peak concentrations in maternal blood throughout the late first trimester and early mid-trimester of pregnancy. CGB3 is expressed solely by trophoblasts. CGB3 is a significant biomarker in pregnancy and oncology, where it is routinely detected and quantified by specific immunoassays.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CGB3 Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 154 amino acids (21-165.a.) and having a molecular mass of 16.6kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). CGB3

Caution: Product has not been fully validated for medical applications. For research use only.

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is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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