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Human IGF-BP3
Catalog # PBG10577

Specification

Human IGF-BP3 - Product Information

Human IGF-BP3 - Additional Information

Description
IGF-BP3 is a 30 kDa cysteine-rich secreted protein. It is the major IGF binding protein present in the plasma of human and animals and it is also found in α-granules of platelets. In addition to its ability to modulate the activity of IGF-I and IGF-II, IGF-BP3 exerts inhibitory effects on follicle stimulating hormone (FSH) activity. Decreased plasma levels of IGF-BP3 often results in dwarfism, whereas elevated levels of IGF-BP3 may lead to acromegaly. The expression of IGF-BP3 in fibroblasts is stimulated by mitogenic growth factors such as Bombesin, Vasopressin, PDGF, and EGF. Recombinant human IGF-BP3 is a 28.8 kDa protein consisting of 264 amino acid residues.

BiologicalActivity
The ED₅₀ was determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED₅₀ for this effect is ≤ 0.2 µg/ml in presence of 15 ng/ml of human IGF-II.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Human IGF-BP3 is for research use only and not for use in diagnostic or therapeutic procedures.

Human IGF-BP3 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety

- Cell Culture

Human IGF-BP3 - Images