

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.

Biological Activity

The ED_{50} was determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED_{50} for this effect is ≤ 0.2 $\mu\text{g/ml}$ 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 ($<1\text{EU}/\mu\text{g}$).

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 Cytometry](#)

- [Cell Culture](#)

Human IGF-BP3 - Images