# IGF-BP3 Human E. coli

## Product Data Sheet

**Type:** Recombinant
**Source:** E. coli
**Species:** Human
**Other names:** Insulin-like Growth Factor-Binding Protein 3, Growth-hormone-dependant binding protein

| **Cat. No.:** | |
|---|---|
| RBG10190005 | (5 µg) |
| RBG10190025 | (25 µg) |
| RBG10190100 | (100 µg) |

## 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 alpha-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.

## Research topic

Apoptosis, Diabetology - Other Relevant Products, Oncology

## Amino Acid Sequence

```
GASSGGLGPV VRCEPCDARA LAQCAPPPAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS PDEARPLQAL
LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK
VDYESQSTDT QNFSSESKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGFYK KKQCRPSKGR KRGFCWCVDK
YGQPLPGYTT KGKEDVHCYS MQSK
```

## Source

E. coli

## Purity

98%

## 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 µg/ml in presence of 15 ng/ml of human IGF-II.

## Endotoxin

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

## Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

## Storage, Stability/Shelf Life

-20°C


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