

## 32-20192: Recombinant Human IGF-BP3(Discontinued)

**Reactivity :** Human

**Alternative Name :** Insulin-like Growth Factor-Binding Protein 3, Growth-hormone-dependent binding protein

### Description

**Source:** *E. coli* 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.

### Product Info

**Amount :** 5 µg / 25 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** GASSGGLGPV VRCEPCDARA LAQCAPPNAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS  
PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP  
LHSKIIIIKK GHAKDSQRYK VDYESQSTDT QNFSSSESKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI  
PNCCKKGFYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGKEDVHCYS MQSK

### Application Note

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  $\leq 0.2$  µg/ml in presence of 15 ng/ml of human IGF-II.