

32-20310: Animal-Free Recombinant Human IGF-BP3(Discontinued)

Reactivity :

Alternative Name : Insulin-like Growth, Factor-Binding Protein3, IBP-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: $\geq 98\%$ by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : GASSGGLGPV VRCEPCDARA LAQCAPPVAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS
PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP
LHSKIIIIKK GHAKDSQRYK VDYESQSTDT QNFSSKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI
PNCDDKGFYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGKEDVHCYS MQSK

Application Note

Determined by its ability to inhibit IGF-II induced proliferation of MCF-7. The expected ED_{50} is ≤ 0.2 µg/ml in the presence of 15 ng/ml of human IGF-II.