

**Recombinant Human IGF-BP3
(rhIGF-BP3)
Catalog Number: 105-01B**

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.
Synonyms	Growth hormone dependent binding protein, IBP3, BP-53
AA Sequence	GASSGGLGPV VRCEPCDARA LAQCAPPAV CAELVREPGC GCCLTCALSE GQPCGIYTERC GSSLRCQPSP DEARPLQALL DGRGLCVNASA VSRLRAYLLP APPAPGNASES EEDRSAGEVE SPSVSSTHRVS DPKFHPLHSK IIIKKGHAKD SQRYKVDYESQ STDTQNFSS SKRETEYGPC RREMEDTLNH LKFLNVLSR GVHIPNCDKK GFYKKKQCRP SKGRKRGFCW CVDKYGQPLP GYTTKGKEDV HCYSMQSK
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 28.8 kDa protein consisting of 264 amino acid residues.
Purity	>98% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active. The ED ₅₀ is ≤ 0.2 μ g/ml in presence of 15 ng/ml of human IGF-II, as determined by its ability to inhibit IGF-II induced MCF-7 proliferation.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.
Endotoxin	< 1EU/ μ g of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.