

IGFBP3

Recombinant Human Insulin-Like Growth Factor Binding Protein 3

Catalog No.	CRI504A CRI504B CRI504C	Quantity:	5 µg 25 µg 1 mg
Alternate Names:	Growth hormone-dependent binding protein, IBP3, BP-53		
Description:	Insulin-like Growth Factor (IGF)-Binding Protein 3 (IGFBP3) contains an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with IGF acid-labile subunit (IGFALS) and either IGF-1 or 2. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. IGFBP3 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.		
Gene ID:	3486		
UniProtKB:	P17936		
Source:	<i>E. coli</i>		
Molecular Weight:	28.8 kDa (264 aa)		
Formulation:	Lyophilized from a sterile filtered solution in PBS, pH 7.4.		
Purity:	>98% by HPLC and SDS-PAGE		
Endotoxin Level:	<1 EU/µg		
Biological Activity:	The ED ₅₀ , determined by inhibiting IGF-2 induced proliferation of human MCF-7 cells in serum free medium, is < 200 ng/mL.		
Specific Activity:	>5.0 × 10 ³ IU/mg, in the presence of 15 ng/mL of rHu IGF-2.		
Amino Acid Sequence:	GASSGGLGPV VRCEPCDARA LAQCAPPAV CAELVREPGC GCCLTCALSE GQPCGIYTER CGSGLRCQPS PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK VDYESQSTDT QNFSSSESKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGFKYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGKEDVHCYS MQSK		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Store desiccated at -20 °C to -80 °C for up to one year. Upon reconstitution, store at 2-8 °C for up to one week. For longer term, store in working aliquots at -20 °C to -80 °C. Avoid repeated freeze-thaw cycles.		

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