

Insulin-Like Growth Factor Binding Protein-3 Human Recombinant

Item Number	rAP-2306
Synonyms	Growth-hormone-dependant binding protein, IBP3, BP-53, IGFBP-3.
Description	IGFBP3 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, polypeptide chain containing 2x264 amino acids and having a molecular mass of 28806 Dalton. IGFBP-3 is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P17936
Amino Acid Sequence	GASSGGLGPV VRCEPCDARA LAQCAPPPAV CAELVREPGC GCCLTCAISE GQPCGIYTER CGSGLRCQPS PDEARPLQAL LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK VDYESQSTDQ QNFSSSESKRE TEYGPCRRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGFYK KKQCRPSKGR KRGFCWCVDK YGQPLPGYTT KGKEDVHCYS MQSK.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized IBP3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IGF-BP 3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	Lyophilized from a 0.2µm filtered concentrated (0.5mg/ml) solution in PBS, pH 7.4. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-3 in sterile 20mM AcOH (acetic Acid) not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by its ability to inhibit IGF-II induced proliferation of MCF-7 is 0.2 µg/ml in the presence of 15 ng/ml of Human IGF-II, corresponding to a specific activity of 5,000,000 units/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**