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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Insulin-Like Growth Factor Binding Protein-3, human recombinant (rHuIGFBP-3)

**Catalog No:** 87384  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Growth-hormone-dependant binding protein, IBP3, BP-53, IGFBP-3

### Background

IGFBP3 is a member of the insulin-like growth factor binding protein (IGFBP) family and encodes a protein with an IGFBP domain and a thyroglobulin type-I domain. The protein forms a ternary complex with insulin-like growth factor acid-labile subunit (IGFALS) and either insulin-like growth factor (IGF) I or II. In this form, it circulates in the plasma, prolonging the half-life of IGFs and altering their interaction with cell surface receptors. Alternate transcriptional splice variants, encoding different isoforms, have been characterized.

### 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.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a 0.2 µm filtered concentrated (0.5 mg/ml) solution in PBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized IGFBP3 in sterile 20 mM AcOH (acetic acid) not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

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.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

GASSGGLGPV VRCEPCDARA LAQCAPPPAV CAELVREPGC GCCLTCLASE GQPCGIYTER CGSGLRCQPS PDEARPLQAL  
LDGRGLCVNA SAVSRLRAYL LPAPPAPGNA SESEEDRSAG EVESPSVSST HRVSDPKFHP LHSKIIIIKK GHAKDSQRYK  
VDYESQSTDT QNFSSSESKRE TEYGPCRREM EDTLNHLKFL NVLSPRGVHI PNCDKKGIFYK KKQCRPSKGR KRGFCWCVDK  
YGQPLPGYTT KGKEDVHCYS MQSK

### 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.



**Usage**

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