



11 Park Drive, Suite 12  
Boston, MA 02215

## Human Insulin-Like Growth Factor Binding Protein 3 (IGFBP-3)

### ORDERING INFORMATION

Catalog No: rAP-0049;

Size: 5 µg; 25 µg

Storage: <- 20° C

### Synonyms:

Growth-hormone-dependant binding protein, IBP3, BP-53, IGFBP-3.

### Introduction:

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 single, non-glycosylated, polypeptide chain containing 264 amino acids and having a molecular mass of 28806 Dalton. IGFBP-3 is purified by proprietary chromatographic techniques.

### Source:

*Escherichia Coli.*

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

The protein was lyophilized with 20mM Tris HCL.

### Solubility:

It is recommended to reconstitute the lyophilized Insulin-Like Growth Factor Binding Protein-3 in sterile 18MΩ-cm H2O not less than 100µg/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 98.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

### Amino acid sequence:

The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Ala-Ser-Ser-Gly.

Contact & Ordering Information: Angio-Proteomie, 11 Park Drive, Suite 12, Boston, MA 02215, USA. Fax: (480) 247-4337, [angioproteomie@gmail.com](mailto:angioproteomie@gmail.com)



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**Biological Activity:**

The ED<sub>50</sub>, 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.

**Usage:**

Angio-Proteomie's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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