

## Human IGFBP-3

### Description

Human Insulin-like growth factor binding protein-3 (IGFBP-3) is a 264 amino acid protein which is a member of a family of six circulating proteins that bind IGF-I and IGF-II with high affinity and modulate their metabolic and mitogenic effects. Human IGFBP-3 is a 40-44 kDa glycoprotein that is the most abundant IGFBP in serum and milk. It is produced by non-parenchymal hepatic cells and circulates in serum, binding IGF-I or IGF-II in conjunction with an acid labile subunit (ALS) to form a (1:1:1) 150 kDa circulating complex at a serum concentration of about 100 nM. Phosphorylation of IGFBP-3 also affects its biological activity.

### References

Wood WI *et al* (1988) *Molecular Endocrinology* **2**, 1176-1185  
Rechler MM & Clemmons DR (1998) *Trends in Endocrinology and Metabolism* **9**, 176-183

### Source:

Expressed in a mammalian cell expression system and purified by a series of chromatography steps.

### Molecular Weight:

Glycosylated IGFBP-3 is 43-45 kDa  
Non-glycosylated IGFBP-3 is 28.76 kDa  
40-45 kDa characteristic doublet of glycosylated IGFBP-3 detected by Western ligand blotting using biotinylated IGF-II

### Purity:

≥ 90 % (by HPLC analysis)

### N-terminal sequence:

Analysis of 5 residues

### Endotoxin:

≤ 0.1 EU/μg

### Appearance:

White powder freeze-dried from 0.1M acetic acid and stored under nitrogen at a slight vacuum.

### Storage/Stability:

At least 2 years at 2-8°C (as a freeze dried product).

### Reconstitution:

*Handling of GroPep IGF binding proteins 1-6*

### Product Code

**Human IGFBP-3**

**100 μg**

**BP3BU100**

### Related Products:

Human IGFBP-1  
Human IGFBP-5

Human IGFBP-2  
Human IGFBP-6

Human IGFBP-4

**\*\*NOT FOR USE IN HUMANS\*\***

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