



# GroPep® Bioreagents

## Human IGFBP-5

### Description

Human Insulin-like growth factor binding protein-5 (IGFBP-5) is a 252 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-5 preferentially binds to IGF-II and primarily inhibits the effects of IGF peptides. It can also form a ternary complex with the acid-labile sub-unit. It binds to extra-cellular matrix proteins which protect it from proteolysis and modify its biological functions. IGFBP-5 may also elicit a biological action through a non-IGF binding mechanism.

### References

Keiffer MC *et al* (1991) Biochemical and Biophysical Research Communications **176**, 210-225  
Twigg and Baxter (1998) Journal of Biological Chemistry **273**, 6074-6079  
Beattie J *et al* (2006) Biochemical Journal **395**, 1-19

### Source:

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

### Molecular Weight:

~ 31-32 kDa glycosylated IGFBP-5 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-5**

**100 μg**

**BP5BU100**

### Related Products:

Human IGFBP-1  
Human IGFBP-4

Human IGFBP-2  
Human IGFBP-6

Human IGFBP-3

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

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