



# GroPep Bioreagents

## Rat IGFBP-4

### Description

Rat Insulin-like growth factor binding protein-4 (IGFBP-4) is a 233 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. Rat IGFBP-4 is present in biological fluids as an N-linked glycosylated form. IGFBP-4 is primarily an inhibitor of IGF action and does not generally bind to cell surfaces.

**This product has an N-terminal glycine and is non-glycosylated. [Gly<sup>1</sup>]IGFBP-4 has the same binding characteristics to IGF-I as glycosylated IGFBP-4.**

### References

Chelius D *et al* (2001) Journal of Endocrinology 168, 283-296

### Source:

Expressed in *E.coli* and purified by a series of chromatography steps.

### Molecular Weight:

Non-glycosylated rat IGFBP-4 is 25.7 kDa

### Purity:

>95 % (by HPLC and SDS PAGE)

### Biological Activity:

Binding to IGF-I (IC<sub>50</sub> = 0.24 nM)

### Endotoxin:

< 0.1 EU/μg

### Appearance:

White powder freeze-dried from 10 mM HCl and stored under nitrogen at a slight vacuum.

### Storage/Stability:

At least 2 years at 2-4°C (as a freeze dried product).

### Reconstitution:

*Handling of GroPep IGF binding proteins 1-6*

### Detection:

*Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II*  
*Procedure for Western Ligand blotting using biotinylated IGF-I or IGF-II*

### Product Codes and Pricing

**Rat IGFBP-4**

**15 μg**

**BP4CU015**

**US\$100**

### Related Products:

Human IGFBP-4  
IGFBP-4 polyclonal antibody

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

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