# 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-2 | Human IGFBP-3 |
| Human IGFBP-4 | Human IGFBP-6 | |

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


**GroPep Bioreagents Pty Ltd**
51 West Thebarton Road
Thebarton SA 5031
Australia

**ABN** 93 147 032 166

**Telephone**: +61 8 7222 1051

**Postal Address**:
PO Box 10065
Adelaide Business Centre
SA 5000
Australia

**Email**:
info@gropep.com

**Internet**:
www.gropep.com