



# GroPep Bioreagents

## Human [Leu<sup>24</sup>] IGF-I

### Description

Human [Leu24] insulin-like Growth Factor-I ([Leu24] IGF-I) is an analogue of human IGF-I which has a Leucine substitution in place of Tyrosine at position 24 of the human IGF-I sequence. [Leu24]IGF-I has normal binding to acid-stripped human serum binding proteins but has reduced binding to the type 1 IGF receptor and to the insulin receptor compared to IGF-I. It is a useful analogue for studying the relative effects of IGF-I through the type 1 receptor and IGF binding proteins.

### References

Bayne ML *et al* (1990) Journal of Biological Chemistry **265**, 15648-15652

### Source:

Produced in *E.coli*.

### Molecular Weight:

7599 daltons

### Purity:

>95 % (by HPLC analysis)

### N-terminal sequence:

Analysis of 5 residues

### Biological Activity:

Stimulation of protein synthesis in rat L6 myoblasts  
(ED<sub>50</sub> < 100 ng/ml)

IGF type 1 receptor binding assay (ED<sub>50</sub> > 100 ng/ml)

IGF binding protein assay: ED<sub>50</sub> < 10 ng/ml)

### 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 2-4°C (as a freeze dried product).

### Reconstitution:

*Handling of GroPep IGF-I, IGF-II and IGF analogues*

### Product Codes and Pricing

**Human [Leu24] IGF-I**

**100 μg**

**ZU100**

### Related Products:

Human [Ala31] IGF-I

Human [Leu60] IGF-I

Human [Ala31] [Leu60] IGF-I

Human [Leu24] [Ala31] IGF-I

**\*\*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](mailto:info@gropep.com)

**Internet:**  
[www.gropep.com](http://www.gropep.com)