



# GroPep Bioreagents

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

### Description

Human [Leu<sup>24</sup>] insulin-like Growth Factor-I ([Leu<sup>24</sup>] 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. [Leu<sup>24</sup>]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 [Leu<sup>24</sup>] 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\*\***

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