GroPep® Bioreagents



Human [Leu²⁴] [Ala³¹] IGF-I

Description

Human [Leu24][Ala31]insulin-like Growth Factor-I ([Leu24][Ala31]IGF-I) is an analogue of human IGF-I which has an Leucine substitution in place of Tyrosine at position 24 and an Alanine substitution in place of Tyrosine at position 31 of the human IGF-I sequence. [Leu24][Ala31]IGF-I has greatly reduced binding to the type 1 IGF receptor and to the insulin receptor compared to IGF-I, [Leu24] IGF-I and [Leu60] IGF-I. However [Leu24] [Ala31] IGF-I has normal binding to acid-stripped human serum binding proteins. Consequently [Leu24] [Ala31] IGF-I is an extremely useful analogue of IGF-I for investigating IGF actions independent of binding to the type 1 IGF receptor

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

Forbes BE et al (2002) European Journal of Biochemistry 269, 961-968

Source: Produced in E.coli. **Molecular Weight:** 7507 daltons

Purity: >95 % (by HPLC analysis) N-terminal sequence: Analysis of 5 residues

Biological Activity: IGF type 1 receptor binding assay: $(ED_{50} > 50 \text{ ng/ml})$

IGF binding protein assay: (ED₅₀ < 10 ng/ml)

Stimulation of protein synthesis in rat L6 myoblasts:

 $(ED_{50} > 2000 \text{ ng/ml})$

Endotoxin: $< 0.1 EU/\mu g$

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:

Human [Leu24] [Ala31] IGF-I 20 µg **ADU020**

Related Products: Human [Ala31] IGF-I

> Human [Leu24] IGF-I Human [Leu60] IGF-I

Human [Ala31] [Leu60] IGF-I

NOT FOR USE IN HUMANS

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