



GroPep® Bioreagents

Human [Arg³] IGF-I (Receptor Grade)

Description

Human [Arg³] insulin-like Growth Factor-I (IGF-I) is a 70 amino acid analogue of IGF-I comprising the complete human IGF-I sequence with the substitution of an Arginine for the Glutamine at position 3. Human [Arg³] IGF-I is more potent than IGF-I *in vitro* and *in vivo*. This increased potency is due to reduced binding of human [Arg³] IGF-I to most of the IGF binding proteins which modify the biological actions of IGF-I. Human [Arg³] IGF-I binds to the type 1 IGF receptor with similar affinity to wild type IGF-I. This is a high-quality research reagent for use in studies on cell growth, IGF receptors and IGF binding proteins.

Human [Arg³] IGF-I is offered to customers who prefer a full length IGF-I rather than the truncated Human Des [1-3] IGF-I which has similar properties.

References

King R *et al* (1992) Journal of Molecular Endocrinology **8**, 29-41
Francis GL *et al* (1993) Biochemical Journal **293**, 713-719

Source:

Produced in *E.coli*.

Molecular Weight:

7676 ± 2 Daltons

Purity:

≥ 95 % (by HPLC analysis)

N-terminal sequence:

Analysis of 5 residues

Biological Activity:

Proliferation of Chinese hamster ovary (CHO) cells
(EC₅₀ ≤ 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 2-8°C (as a freeze dried product).

Reconstitution:

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

Detection:

Procedure for the Iodination of IGFs
Determination of IGF-I or IGF-II by Radioimmunoassay (RIA)

Product Codes

Human [Arg³] IGF-I

100 μg **EU100**
1 mg **EM001**

Related Products:

Human IGF-I (Receptor Grade)
LR³IGF-I (Receptor grade)
Human Des [1-3] IGF-I (Receptor Grade)
Human [Arg³] IGF-I (Media Grade)

****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

WDSP-14.02

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

Email:
info@gropep.com

Internet:
www.gropep.com