

GroPep Bioreagents

Human Des [1-6] IGF-II

Description

Human Des [1-6] insulin-like Growth Factor-II (IGF-II) is a 61 amino acid analogue of human IGF-II lacking the N-terminal hexapeptide Ala-Tyr-Arg-Pro-Ser-Glu. Human Des [1-6] IGF-II is more potent than IGF-II *in vitro* and *in vivo*. This increased potency is due to reduced binding of human Des [1-6] IGF-II to most of the IGF binding proteins which modify the biological actions of IGF-II. Human Des [1-6] IGF-II binds to both the type 1 and type 2 IGF receptors with similar affinity to wild type IGF-II. This is a high quality research reagent for use in studies on cell growth, IGF receptors and IGF binding proteins.

References

Francis GL *et al* (1993) Biochemical Journal **293**, 713-719

Source:

Produced in *E.coli*.

Molecular Weight:

6765 daltons

Purity:

>95 % (by HPLC analysis)

N-terminal sequence:

Analysis of 7 residues

Biological Activity:

Stimulation of protein synthesis in rat L6 myoblasts (ED₅₀ <75 ng/ml)

IGF type 1 receptor binding assay (ED₅₀ < 50 ng/ml)

IGF type 2 receptor binding assay (ED₅₀ < 100 ng/ml)

IGF binding protein assay: ED₅₀ > 1000 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 Des [1-6] IGF-II

100 μg

MU100

Related Products:

Human IGF-II

Human [Arg6] IGF-II

Human Des [1-3] 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

Internet:
www.gropep.com