



GroPep Bioreagents

Human pro-IGF-II (Amino Acids 1-104)

Description

The IGF-II gene encodes a single transcript which results in a 156 amino acid protein, including an 89 amino acid E-domain. Pro-IGF-II is converted to mature IGF-II by sequential cleavage at amino acids 104, 87 and 67. Pro-IGF-II contains sites of O-linked glycosylation. Differential glycosylation and cleavage within the E-domain can therefore result in multiple pro-IGF-II isoforms. The pro-IGF-II proteins make up 10-20% of circulating IGF-II. Pro-IGF-II proteins are secreted by some tumour cell lines and levels are elevated in non-islet cell tumour hypoglycaemia.

References

Duguay SJ *et al* (1998) Journal of Biological Chemistry **273**, 18443-18451
Marks AG *et al* (2011) Endocrinology **152**, 922-930

Source:

Produced in *E.coli*.

Molecular Weight:

11949 daltons

Purity:

>95 % (by HPLC analysis)

N-terminal sequence:

Analysis of 5 residues

Biological Activity:

Stimulation of protein synthesis in rat L6 myoblasts
(ED₅₀ < 220 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

Detection:

Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II
Procedure for Western Ligand blotting using biotinylated IGF-I or IGF-II

Product Codes and Pricing

Human pro IGF-II (1-104)

100 μg

AZU100

US\$100

Related Products:

Human pro-IGF-II (aa 1-156)

Human IGF-IIe (aa 78 - 88) antiserum (Rabbit)

Human IGF-IIe (aa 89 - 101) antiserum (Rabbit)

Human IGF-IIe (aa 138 - 156) antiserum (Rabbit)

****NOT FOR USE IN HUMANS****

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