



GroPep Bioreagents

Human Pro-IGF-II (aa 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 <i>E.coli</i> .
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 (ED ₅₀ < 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:	<i>Handling of GroPep IGF-I, IGF-II and IGF analogues</i>
Detection:	<i>Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II</i> <i>Procedure for Western Ligand blotting using biotinylated IGF-I or IGF-II</i>

Product Codes and Pricing

Human Pro IGF-II (1-104)	100 μg	AZU100
---------------------------------	---------------	---------------

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****

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