

Human Pro-IGF-II (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* (1999) *Hormone and Metabolic Research* **31**, 43-49
 Marks AG *et al* (2011) *Endocrinology* **152**, 922-930
 Qiu Q *et al* (2005) *Proceedings of the National Academy of Sciences of the United States of America* **102(31)**, 11047-52

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

Product Codes:

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

Related Products:

Human IGF-IIe (78 - 88) antiserum (Rabbit)
 Human IGF-IIe (89 - 101) antiserum (Rabbit)
 Human IGF-IIe (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