

Human proIGF-II (aa 1-156)

Catalog No:	AHU100
Size:	100 µg
Description:	Human Insulin-like Growth Factor-II (Human IGF-II) is synthesized as a 156 amino acid precursor protein, known as proIGF-II. This protein includes an 87 amino acid C-terminal region known as the E-domain. A proteolysis step releases the mature 67 amino acid IGF-II polypeptide. The proIGF-II proteins make up 10-20% of circulating IGF-II. Pro-IGF-II proteins are secreted by some tumor cell lines and levels are elevated in non-islet cell tumor hypoglycemia.
References:	Duguay S. J. <i>et al.</i> (1998) J . Biol. Chem. 273 , 18443-18451.
Source:	Produced recombinantly in <i>E.coli</i> .
Purity:	>85 % (as determined by HPLC and N-terminal sequence analysis).
Molecular Weight:	The final product contains three major isoforms of proIGF-II corresponding to molecular weights of 16.1, 17.0 and 17.6 kDa. These species correspond to the full length 156 amino acid protein and two smaller species corresponding to C-terminal truncations of approximately 5 and 15 residues which result from the purification process.
N-terminal sequence analysis:	5 residues > 85 % single sequence.
Biological Activity:	Stimulation of protein synthesis in rat L6 myoblasts.
Endotoxin:	< 0.1 EU/µg
State and Appearance:	Lyophilized white powder. Dried from 0.1 M acetic acid and stored under nitrogen at a slight vacuum.
Storage/Stability:	At least 2 years at 2 - 4°C (lyophilized).
Detection:	By Western blot.
Reconstitution:	<u>#1000: Handling of IGF-I, IGF-II and IGF Analogs</u>
Protocol:	<u>#3009: Procedure for Western Immunoblotting human ProIGF-II</u>
Related Products:	<u>Human proIGF-II (aa 1-104) (Receptor Grade)</u> , Catalog No: AZU100, size: 100 µg or Catalog No: AZM001, size: 1 mg <u>Anti-Human IGF-II, (aa 138 - 156)</u> , Catalog No: PAAX1, size: 100 µl <u>Anti-Human IGF-II, (aa 89 - 101)</u> , Catalog No: PAAY1, size: 100 µl <u>Anti-Human IGF-II, (aa 78 - 88)</u> , Catalog No: PAAZ1, size: 100 µl

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