

IGF2

Recombinant Human pro-IGF-II (aa 1-156) Receptor Grade

Catalog No.	AHU020	Quantity:	20 µg
Alternate Names:	Pro-Insulin-like growth factor II, pro-IGF-2, Somatomedin-A		
Description:	Recombinant 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.		
UniProt ID:	P01344		
Gene ID:	3481		
N-terminal Sequence:	5 residues confirmed		
Source:	<i>E. coli</i>		
Molecular Weight:	Three major isoforms of proIGF-II at 16.1, 17.0 and 17.6 kDa, full length 156 amino acid protein and two smaller species, C-terminal truncations of approximately 5 and 15 residues which result from the purification process.		
Formulation:	Lyophilized from 0.1 M acetic acid. Sealed under dry nitrogen at a slight vacuum (-25 kPa).		
Purity:	> 85 % by HPLC analysis		
Endotoxin Level:	< 0.1 EU/µg		
Biological Activity:	Stimulation of protein synthesis in rat L6 myoblasts: ED ₅₀ < 220 ng/ml		
Reconstitution:	See Protocol 1000, Handling of IGF-I, IGF-II and IGF analogs.		
Application Notes:	Protocol 3003 Procedure for Western Ligand blotting using iodinated IGF-I or IGF-II Protocol 3004 Procedure for Western Ligand blotting using biotinylated IGF-I or IGF-II		
Storage & Stability:	Stored as supplied for up to 1 year at 2-8°C.		

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