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## Product Data Sheet

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Product Name: IGF2 Human  
 Cat. No.: GP20426  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Somatomedin-A; IGF2; INSIGF; pp9974; C11orf43; FLJ22066; FLJ44734.		
Amino Acid Sequence	AYRPSETLCG GELVDTLQFV CGDRGFYFSR PASRVSRRSR GIVEECCFRS CDLALLETYC ATPAKSE.		
Solubility	It is recommended to reconstitute the lyophilized IGF2 in sterile 18MΩ-cm H <sub>2</sub> O at a concentration of 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein was lyophilized from a sterile filtered solution containing 0.1 % trifluoroacetic acid (TFA).		

### Introduction

IGF-2 is a member of the insulin family of polypeptide growth factors that is involved in development and growth. It is an imprinted gene and is expressed only from the paternally inherited allele. It is a candidate gene for eating disorders. There is a read-through, INS-IGF2, which aligns to this gene at the 3' region and to the upstream INS gene at the 5' region. Two alternatively spliced transcript variants encoding the same protein have been found for this gene.

### Biological Activity

The activity is determined by the dose dependent proliferation of FDC-P1 cells and is typically 8.39ng/mL corresponding to a specific activity of 1.2x10<sup>5</sup>units/mg..

### Stability

Lyophilized IGF-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IGFII should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a

**Caution: Product has not been fully validated for medical applications. For research use only.**

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Insulin-Like Growth Factor-II Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 67 amino acids and having a molecular mass of 7505 Dalton. IGF-II is purified by proprietary chromatographic techniques.

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