

# Recombinant Human IGF-II Protein

Catalog No.: RP02887LQ **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3481	P01344

### Tags

No tag

### Synonyms

IGF2;C11orf43;GRDF;IGF-II;PP9974

## Product Information

Source	Purification
HEK293	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW	Observed MW
7.5 kDa	10-12 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL method.

### Formulation

0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

0.2 mg/mL in sterile PBS, pH7.4

## Background

Insulin-like growth factor I (also known as somatomedin C and somatomedin A) and insulin-like growth factor II (multiplication stimulating activity or MSA) belong to the family of insulin-like growth factors that are structurally homologous to proinsulin. Mature IGF-I and IGF-II share approximately 70% sequence identity. Both IGF-I and IGF-II are expressed in many tissues and cell types and may have autocrine, paracrine and endocrine functions. Mature IGF-I and IGF-II are highly conserved (100% identity between human, bovine and porcine proteins) and exhibit cross-species activity.IGF-II is a potent mitogenic growth factor. However, unlike IGF-I which has important postnatal roles, the growth-promoting function of IGF-II is limited to embryonic development. Two specific cell surface receptors that bind IGF-I and IGF-II have been identified. The type I IGF receptor that participates in IGF signaling is structurally related to the insulin receptor. It is a disulfide-linked heterotetrameric transmembrane glycoprotein with an intracellular tyrosine kinase domain. Type I IGF receptor binds IGF-I with higher affinity than IGF-II. The type II IGF receptor which binds IGF-II with much higher affinity than IGF-I is also the cation-independent mannose 6-phosphate receptor. At the present time, it is not known if the type II IGF receptor participates in the IGF signaling pathway. An additional unknown receptor which mediates IGF?II signaling has also been proposed. Circulating IGFs exist in complexes bound to IGF binding proteins. Currently, at least six high affinity binding proteins have been identified.

## Basic Information

### Description

Recombinant human IGF-II Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala25-Glu95) of human IGF-II (Accession #) fused with additional amino acid free.

### Bio-Activity

### Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

## Contact

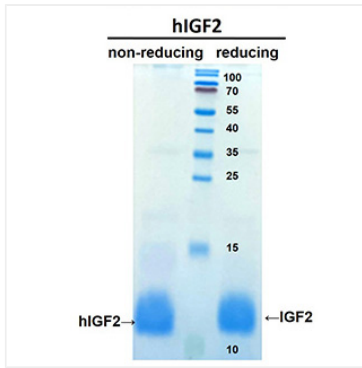
☎ | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

🌐 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Validation Data

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Human IGF-II on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.