

CHASELECTION**Recombinant Human IGF-II/IGF2****货号(Catalog Number):** CY112FXXXX(L)**别名(synonym):** C11orf43; chromosome 11 open reading frame 43; FLJ22066; GRDF; IGF2; IGF-2; IGFII; IGF-II**来源(Source):** Human embryonic kidney cell, HEK293-derived human IGF-II/IGF2 protein**蛋白结构 (Structure):**

该蛋白不含标签

基因 ID: P01344.1**氨基酸序列:**

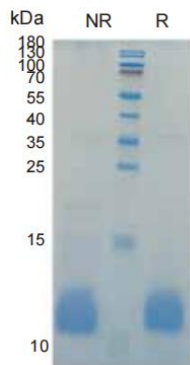
Ala25-Glu91

分子量大小(MW):

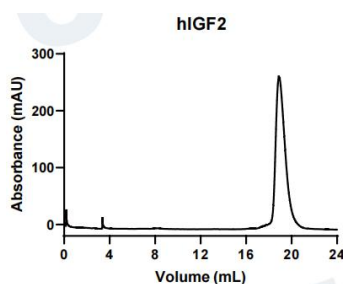
7.5 kDa

纯度 (Purity) :

> 95%, determined by SDS-PAGE.

SDS-PAGE

4 ug/lane protein was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by CoomassieBlue staining.

Gel filtration

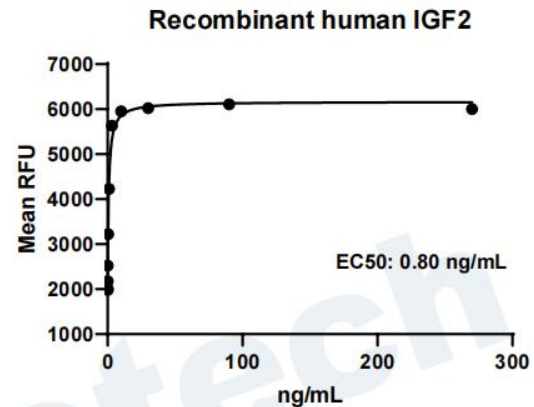
Size-exclusion chromatography of recombinant human IGF-II/IGF2 protein ((280 nm absorbance))

**内毒素含量(Endotoxin):** <0.010 EU per 1 ug of the protein by the LAL method.**制剂(Formulation):**

Solution protein.

Dissolved in sterile PBS buffer.

This solution can be diluted into other aqueous buffers. Centrifuge the vial prior to opening.

活性检测 (Biological Activity) :

Recombinant human IGF-2 stimulates cell proliferation of the MCF-7 human breast cancer cells.

储存与运输(Storage):

Avoid repeated freeze-thaw cycles.

It is recommended that the protein be aliquoted for optimal storage.

36 months from date of receipt, -20 to -70 °C as supplied.

产品背景介绍 (Production):

Insulin-like Growth Factor II (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.

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

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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. 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.

