

# CHAMOT

重组人胰岛素样生长因子-II /Recombinant IGF-II,  
Human, Animal-Free

CM114-5HP



CM114-20HP



CM114-100HP



CM114-500HP



CM114-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人胰岛素样生长因子-II /Recombinant IGF-II, Human, Animal-Free

产品编号	CM114-5HP	CM114-20HP	CM114-100HP	CM114-500HP	CM114-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Insulin like Growth Factors 2 (IGF-II) is a 7.48 kDa member of the Insulin-like Growth Factors with 67 amino acid residues. IGF-II is mainly expressed from placenta, extravillous trophoblasts, leydig cells, syncytiotrophoblasts, cytotrophoblasts, peritubular cells. IGF-II regulating fetoplacental development and tissue differentiation. In adults, IGF-II signaling involves glucose metabolism in adipose tissue, skeletal muscle and liver. It also has important implications for metabolic disorders and cancer.

#### 别称

insulin-like growth factor-II, Somatomedin A

#### 蛋白编码

P01344

#### 分子量

The protein has a calculated MW of 8.28 kDa. The protein migrates as 11 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>98% as determined by SDS-PAGE.

#### 生物活性

Measure by its ability to induce MCF-7 cells proliferation. The ED<sub>50</sub> for this effect is <3 ng/mL. The specific activity of recombinant human IGF-II is > 3x 10<sup>5</sup> IU/mg.

#### 内毒素检测

<0.1 EU per 1 µg of the protein by the LAL method.

#### 蛋白序列

AYRPSETLCGGELVDTLQFVCGDRGFYFSRPASRVSRRSRGIVEECCFRSCDLALLETYCATPAKS E with polyhistidine tag at the N-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

#### 产品应用

Cell Culture

## 产品使用

### 1. Before opening, centrifuge at 3000 rpm for 5 mins.

### 2. Initial Reconstitution

- Reconstitute the Lyophilized Protein in sterile H<sub>2</sub>O to a concentration of 100-200 µg/mL.
- Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution.

**Do Not Vortex!** Vigorous shaking may impair the biological activity of the protein.

- Store at 2°C to 8°C for up to 1 week.

### 3. Extended Storage

- After the initial reconstitution, further dilute the reconstituted protein in a buffer containing a carrier protein or stabilizer (e.g., 0.1% BSA, 10% FBS, 5% HSA, or 5% trehalose solution). The final concentration is not less than 10 µg/ml.
- Prepare aliquots ( $\geq 20 \mu\text{l}$ ).
- Store at -20°C or -80°C for 3 to 6 months.

**Avoid repeated freeze-thaw cycles.**

## 产品储存/运输

**Lyophilized Protein:** Store at -20°C for 1 year.

### 储存

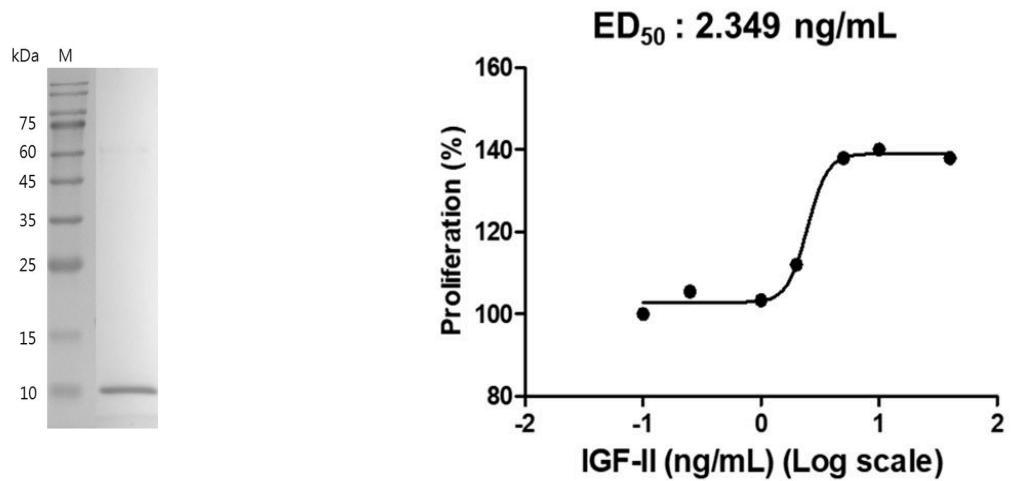
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**Extended Storage:** Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

### 运输

Blue Ice

## 实验数据展示



SDS-PAGE analysis of recombinant human IGF-II

Human IGF-II, His Tag, E. coli induced MCF-7 cell proliferation,  
with the ED<sub>50</sub> at 2.349 ng/mL.

For Research Use or Further Manufacturing Only

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