

# CHAMOT

重组人表皮生长因子 /Recombinant EGF, Human, Animal-Free

CM120-100HP

CM120-500HP

CM120-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人表皮生长因子 /Recombinant EGF, Human, Animal-Free

产品编号	CM120-100HP	CM120-500HP	CM120-1000HP
规格	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Human epidermal Growth Factors (EGF) is a 6 kDa cytokine with 53 amino acid residues. EGF is mainly secreted from ectodermal cells, monocytes, kidney and duodenal glands. Upon binding to its receptor, EGFR, EGF acts to stimulate cell growth and proliferation of epithelial cells, play important roles in many developmental processes including accelerate tooth eruption, inhibits gastric acid secretion, and involve in wound healing.

#### 别称

epidermal growth factor, Urogastrone, URG

#### 蛋白编码

P01133

#### 分子量

The protein has a calculated MW of 7.16 kDa. The protein migrates as 9-11 kDa under reducing condition (SDS-PAGE analysis).

#### 表达系统

Escherichia coli

#### 纯度

>95% as determined by SDS-PAGE and SEC-HPLC.

#### 生物活性

Measure by its ability to induce 3T3 cells proliferation. The ED<sub>50</sub> for this effect is < 1.0 ng/mL. The specific activity of recombinant human EGF is approximately >1.0 x 10<sup>6</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

MNSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYIGERCQYRDLKWWELR with polyhistidine tag at the C-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

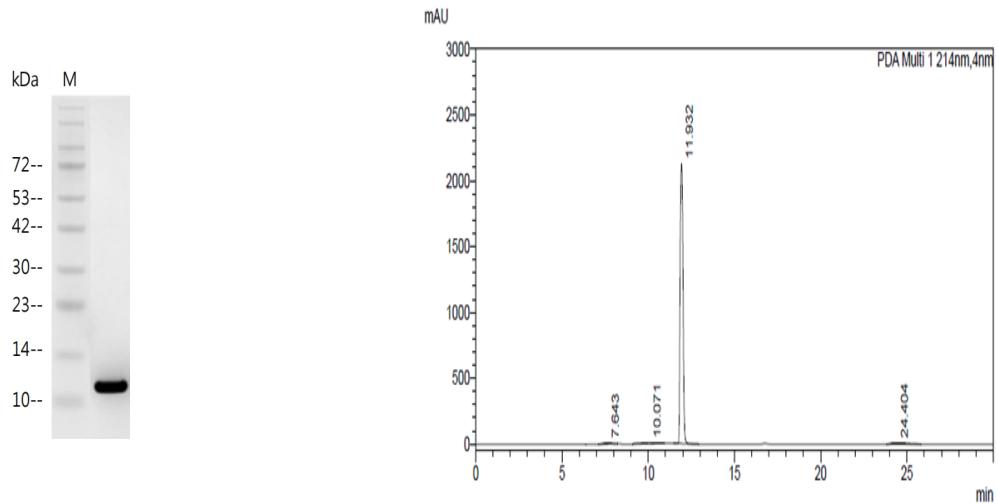
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 EGF  
 The purity of recombinant human EGF is greater than 95% as  
 determined by SEC-HPLC.

## 文献引用

- USP8 positively regulates hepatocellular carcinoma tumorigenesis and confers ferroptosis resistance through  $\beta$ -catenin stabilization. *Cell Death Dis.* 2023 Jun 13;14(6):360. (IF 9.696) (Human EGF/bFGF)

For Research Use or Further Manufacturing Only

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