

# CHAMOT

**重组人骨形态发生蛋白-10 /Recombinant BMP-10,  
Human, Animal-Free**

**CM072-5HP**

**CM072-20HP**

**CM072-100HP**

**CM072-500HP**

**CM072-1000HP**



**CHAMOT**

乔默®生物

*Specialize In Cytokines*



# CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

## 重组人骨形态发生蛋白-10 /Recombinant BMP-10, Human, Animal-Free

产品编号	CM072-5HP	CM072-20HP	CM072-100HP	CM072-500HP	CM072-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Bone Morphogenetic Protein-10 (BMP-10) is an extracellular multifunctional signaling cytokine that is also a member of the TGFβ family. BMP-10 can bind with TGFβ receptor and is involved in SMAD protein signal transduction. The functions related to bone generation can induce bone and cartilage formation. Different from other family members, BMP-10 is a novel protein involved in the heart's trabeculation.

#### 别称

bone morphogenetic protein 10, BMP10

#### 蛋白编码

O95393

#### 分子量

The protein has a calculated MW of 13.10 kDa. The protein migrates as 16 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 alkaline phosphatase production by ATDC5 cells. The ED<sub>50</sub> for this effect is 1.7-2.1 ng/mL.

#### 内毒素检测

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

#### 蛋白序列

MNAKGN YCKRTPLYIDFKEIGWDSWIIAPPGYEAYECRGVCNYP LAEHLTP TKHAI IQALVHLK NSQKASKACCVPTKLEPISILYLDKGVVTYKFKYEGMAVSECGCR with polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. 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 (≥20 µl).
- 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

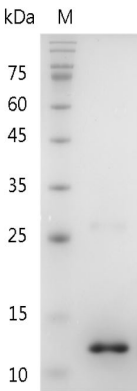
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



For Research Use or Further Manufacturing Only

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