

# CHAMOT

**重组人骨形态发生蛋白-9 /Recombinant BMP-9,  
Human, Animal-Free**

CM071-5HP

CM071-20HP

CM071-100HP

CM071-500HP

CM071-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*



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## 重组人骨形态发生蛋白-9 /Recombinant BMP-9, Human, Animal-Free

产品编号	CM071-5HP	CM071-20HP	CM071-100HP	CM071-500HP	CM071-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

**背景描述** Bone Morphogenetic Protein-9 (BMP-9), known as Growth differentiation factor 2 (GDF2), is an extracellular multifunctional cytokine that is also a member of the TGF- $\beta$  family. BMP-8B can bind with the TGF- $\beta$  receptor and trigger SMAD protein signal transduction. BMP-9 is the most effective for the differentiation of osteoblasts in vivo, and the general BMP blocker does not affect it.

**别称** bone morphogenetic protein 9, NAP-1, BMP9

**蛋白编码** Q9UK05

**分子量** The protein has a calculated MW of 12.89 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 <0.4 ng/mL.

**内毒素检测** <0.01 EU per 1 µg of the protein by the LAL method.

**蛋白序列** SAGAGSHCQKTSLRVNFEDIGWDSWIIAPKEYEAYECKGGCFFPLADDVPTKHAIVQTLVHLK FPTKVGKACCVPTKLSPISVLYKDDMGVPTLKYHYEGMSVAECGCR with polyhistidine tag at the N-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 4.5. 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

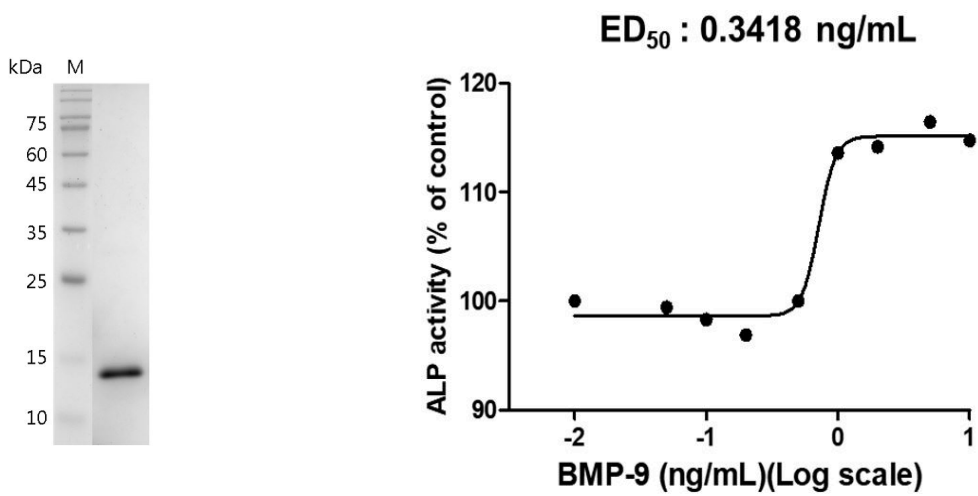
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



SDS-PAGE analysis of recombinant human BMP-9

Human BMP-9, His Tag, E. coli induced alkaline phosphatase production by ATDC5 cells, with the  $ED_{50}$  at 0.3418 ng/mL.

For Research Use or Further Manufacturing Only

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