

# CHAMOT

重组人骨形态发生蛋白-8b /Recombinant BMP-8b,  
Human, Animal-Free

CM070-5HP



CM070-20HP



CM070-100HP



CM070-500HP



CM070-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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## 重组人骨形态发生蛋白-8b /Recombinant BMP-8b, Human, Animal-Free

产品编号	CM070-5HP	CM070-20HP	CM070-100HP	CM070-500HP	CM070-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

<b>背景描述</b>	Bone Morphogenetic Protein-8B (BMP-8B) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- $\beta$ family. BMP-8B can bind with the TGF- $\beta$ receptor and is involved in SMAD protein signal transduction. BMP-8B plays a role in bone and cartilage development. It is expressed in brown adipose tissues and the hypothalamus, which can affect thermogenesis and susceptibility to obesity.
<b>别称</b>	bone morphogenetic protein 8b, OP-2 (Osteogenic Protein-2), BMP8
<b>蛋白编码</b>	P34820
<b>分子量</b>	The protein has a calculated MW of 16.48 kDa. The protein migrates as 18 kDa under reducing condition (SDS-PAGE analysis).
<b>表达系统</b>	Escherichia coli
<b>纯度</b>	>98% as determined by SDS-PAGE.
<b>生物活性</b>	Measure by its ability to induce alkaline phosphatase production by ATDC5 cells. The ED <sub>50</sub> for this effect is <21.8 ng/mL.
<b>内毒素检测</b>	<0.01 EU per 1 µg of the protein by the LAL method.
<b>蛋白序列</b>	AVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIAPQG YSAYYCEGECSFPLDSCMNATNHAILQLSLVHLMMPDAVPKACCAPTKLSATSVLYYDSSNNVI LRKHRNMVVKACGCH with polyhistidine tag at the N-terminus.
<b>产品形式</b>	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.
<b>产品应用</b>	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

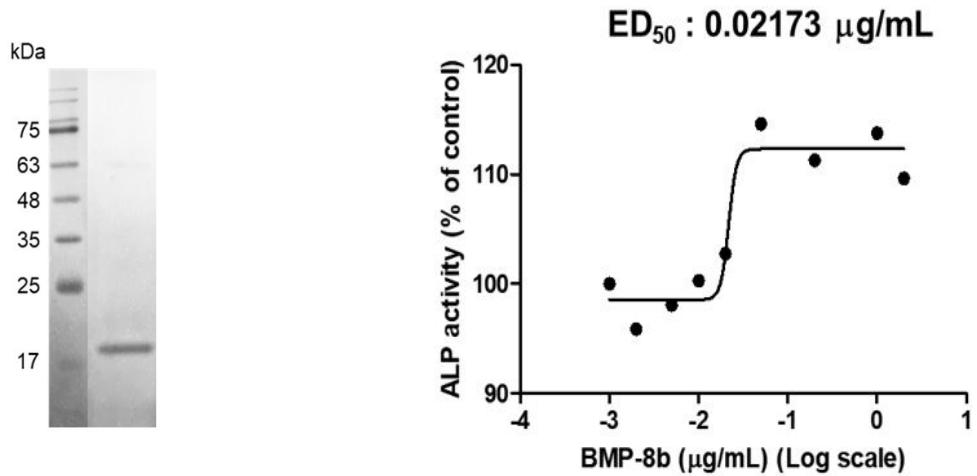
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 BMP-  
8b

Human BMP-8b, His Tag, E. coli induced alkaline phosphatase  
production by ATDC5 cells, with the ED<sub>50</sub> at 21.73 ng/mL.

For Research Use or Further Manufacturing Only

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