

# CHAMOT

## 重组人骨形态发生蛋白-14 /Recombinant BMP-14, Human, Animal-Free

CM076-5HP

CM076-20HP

CM076-100HP

CM076-500HP

CM076-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*



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## 重组人骨形态发生蛋白-14 /Recombinant BMP-14, Human, Animal-Free

产品编号	CM076-5HP	CM076-20HP	CM076-100HP	CM076-500HP	CM076-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

**背景描述** Bone Morphogenetic Protein-14 (BMP-14), known as Growth differentiation factor 5 (GDF5), is an extracellular multifunctional cytokine that is also a member of the TGFβ family. BMP-14 can bind with the TGFβ receptor and trigger SMAD protein signal transduction. BMP-14 plays a role in skeletal and joint development and increases the survival of neurons that respond to the neurotransmitter dopamine.

**别称** bone morphogenetic protein 14, Cartilage-Derived Morphogenetic Protein-1, Growth/Differentiation Factor-5, GDF-5, CDMP-1, BMP14, GDF5, CDMP1

**蛋白编码** P43026

**分子量** The protein has a calculated MW of 14.52 kDa. The protein migrates as 18 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 <14 ng/mL.

**内毒素检测** <0.1 EU per 1 µg of the protein by the LAL method.

**蛋白序列** MAPLATRQGKRPSKNLKARCSRKALHVNFKDMGWDDWIIAPLEYEAFHCEGLCEFPLRSHLEPTNHAVIQTLMNMSMDPESTPPTCCVPTRLSPISILFIDSANNVVKQYEDMVVESCGR 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 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.

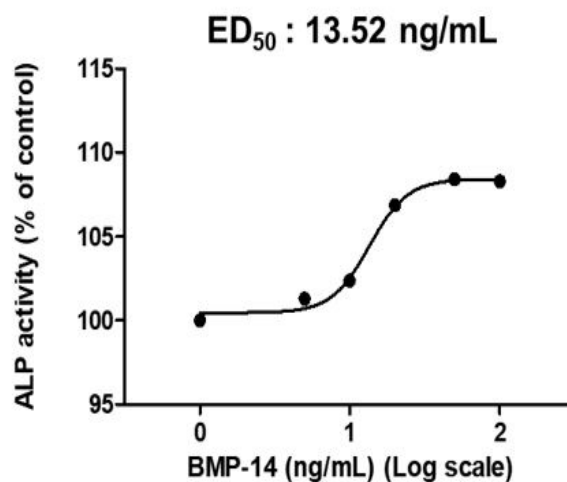
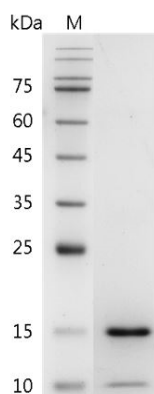
3.Extended Storage

- 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

储存	<b>Lyophilized Protein:</b> Store at -20°C for 1 year.
	<b>Initial Reconstitution:</b> Store at 2°C to 8°C for up to 1 week.
	<b>Extended Storage:</b> 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-

14

Human BMP-14, His Tag, E. coli induced alkaline phosphatase

production by ATDC5 cells, with the  $ED_{50}$  at 13.52 ng/mL.

For Research Use or Further Manufacturing Only

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