

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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实验数据展示

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 TGF β family. BMP-14 can bind with the TGF β 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 ₅₀ 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	MAPLATRQGKRPSKNLKARCSRKALHVNFKDMGWDDWIIAPLEYAFHCEGLCEFPLRSHLEPTNHAVIQTLMNSMDPESTPPTCCVPTRLSPISILFIDSANNVVYKQYEDMVVESCGCR 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 H₂O 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

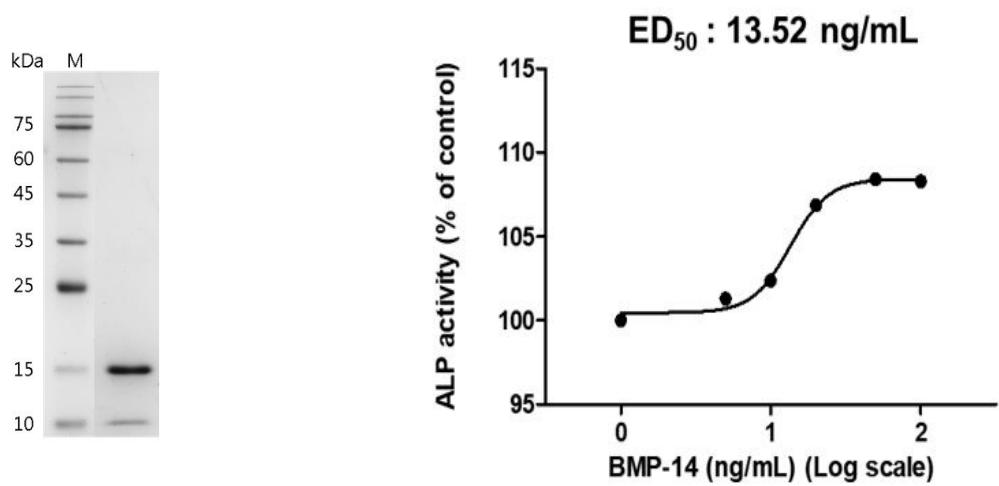
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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-14

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

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production by ATDC5 cells, with the ED₅₀ at 13.52 ng/mL.

For Research Use or Further Manufacturing Only

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