

CHAMOT

**重组人骨形态发生蛋白-5 /Recombinant BMP-5,
Human, Animal-Free**

CM066-5HP

CM066-20HP

CM066-100HP

CM066-500HP

CM066-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人骨形态发生蛋白-5 /Recombinant BMP-5, Human, Animal-Free

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|------|-----------|------------|-------------|-------------|--------------|
| 产品编号 | CM066-5HP | CM066-20HP | CM066-100HP | CM066-500HP | CM066-1000HP |
| 规格 | 5 µg | 20 µg | 100 µg | 500 µg | 1 mg |

产品简介

背景描述

Bone Morphogenetic Protein-5 (BMP-5) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-5 can bind with TGF- β receptors and trigger SMAD protein signal transduction. It is involved in many negatively regulated physiological processes, such as the aldosterone biosynthetic process and epithelial to mesenchymal transition. BMP-5 also plays a vital role in cartilage synthesis.

别称

bone morphogenetic protein 5, BMP5

蛋白编码

P22003

分子量

The protein has a calculated MW of 16.57 kDa. The protein migrates as 17 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 ED₅₀ for this effect is <0.17 µg/mL.

内毒素检测

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

蛋白序列

MAANKRKNQNRNKSSSHQDSSRMSSVGDYNTSEQKQACKKHELYVSRDLGWQDWIIAPE
GYAAFYCDGECFPLNAHMNATNHAIVQTLVHLMFPDHVPKPCCAPTKLNAISVLYFDDSSN
VILKKYRNMVVRSCGCH 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 (≥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

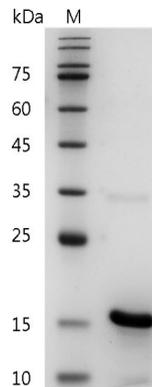
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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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