

CHAMOT

重组人骨形态发生蛋白-13 /Recombinant BMP-13, Human, Animal-Free

CM075-5HP

CM075-20HP

CM075-100HP

CM075-500HP

CM075-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

重组人骨形态发生蛋白-13 /Recombinant BMP-13, Human, Animal-Free

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|------|-----------|------------|-------------|-------------|--------------|
| 产品编号 | CM075-5HP | CM075-20HP | CM075-100HP | CM075-500HP | CM075-1000HP |
| 规格 | 5 µg | 20 µg | 100 µg | 500 µg | 1 mg |

产品简介

背景描述

Bone Morphogenetic Protein-13 (BMP-13), known as Growth differentiation factor 6 (GDF6), is an extracellular multifunctional cytokine that is also a member of the TGFβ family. BMP-13 can bind with the TGFβ receptor and induce SMAD protein signal transduction. BMP-13 is a regulatory protein that can affect the growth and differentiation of developing embryos. Moreover, it plays a role in regulating the patterning of the ectoderm and controlling eye development.

别称

bone morphogenetic protein 13, subunit (CLMF p35), NK cell Stimulating Factor Chain 1, BMP13

蛋白编码

Q6KF10

分子量

The protein has a calculated MW of 14.50 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 63-240 ng/mL.

内毒素检测

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

蛋白序列

MTAFASRHGKRHGKKSRLRCSKKPLHVNFKELGWDDWIIAPLEYEAYHCEGVCDPFLRSHLEP
TNHAIIQTLMNMDPGSTPPSCCVPTKLTPISILYIDAGNNVVYKQYEDMVVESCGR 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

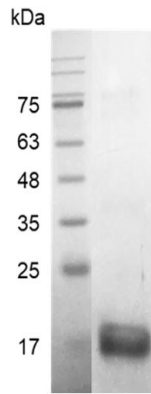
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

Extended Storage: Store at -20°C or -80°C for 3 to 6 months with a carrier protein or stabilizer.

运输

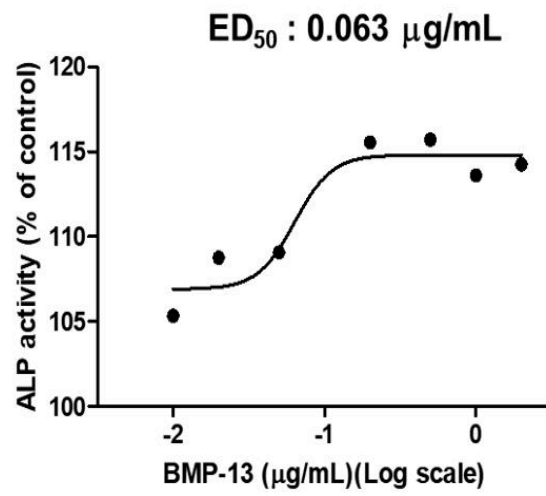
Blue Ice

实验数据展示



SDS-PAGE analysis of recombinant human BMP-

13



Human BMP-13, His Tag, E. coli induced alkaline phosphatase

production by ATDC5 cells, with the ED₅₀ at 63 ng/mL.

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491