

CHAMOT

重组人骨形态发生蛋白-11 /Recombinant BMP-11, Human, Animal-Free

CM073-5HP

CM073-20HP

CM073-100HP

CM073-500HP

CM073-1000HP



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-11 /Recombinant BMP-11, Human, Animal-Free

产品编号	CM073-5HP	CM073-20HP	CM073-100HP	CM073-500HP	CM073-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Bone Morphogenetic Protein-11 (BMP-11), known as Growth differentiation factor 11 (GDF11), is an extracellular multifunctional signaling cytokine that is also a member of the TGFβ family. BMP-11 can bind with the TGFβ receptor and is involved in SMAD protein signal transduction. Moreover, it promotes the formation of blood vessels and nerves that can control anterior-posterior patterning.

别称

bone morphogenetic protein 11, Growth/Differentiation Factor-11, GDF-11, BMP11

蛋白编码

O95390

分子量

The protein has a calculated MW of 13.40 kDa. The protein migrates as 16 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 <11 ng/mL. Measure by its ability to induce hemoglobin expression in K562 cells. The ED₅₀ for this effect is <4 ng/mL.

内毒素检测

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

蛋白序列

MNLGLDCDEHSSSRCCRYPLTVDFEAFGWDWIIAPKRYKANYCSGQCEYMFQMYPHTHLVQQANPRGSAGPCCTPTKMSPINMLYFNDKQKQIYGKIPGMVVDRGCS 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 and 50 mM L-arginine, 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

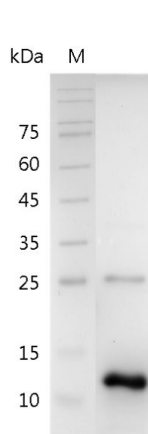
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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

运输

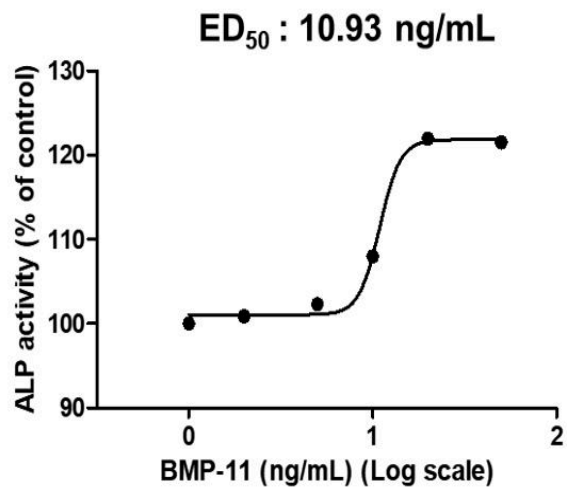
Blue Ice

实验数据展示



SDS-PAGE analysis of recombinant human BMP-

11



Human BMP-11, His Tag, E. coli induced alkaline phosphatase production by ATDC5 cells, with the ED₅₀ at 10.93 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