

CHAMOT

**重组人骨形态发生蛋白-8b /Recombinant BMP-8b,
Human, Animal-Free**

CM070-5HP

CM070-20HP

CM070-100HP

CM070-500HP

CM070-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



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产品编号	CM070-5HP	CM070-20HP	CM070-100HP	CM070-500HP	CM070-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Bone Morphogenetic Protein-8B (BMP-8B) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-8B can bind with the TGF- β receptor and is involved in SMAD protein signal transduction. BMP-8B plays a role in bone and cartilage development. It is expressed in brown adipose tissues and the hypothalamus, which can affect thermogenesis and susceptibility to obesity.

别称

bone morphogenetic protein 8b, OP-2 (Osteogenic Protein-2), BMP8

蛋白编码

P34820

分子量

The protein has a calculated MW of 16.48 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 ED₅₀ for this effect is <21.8 ng/mL.

内毒素检测

<0.01 EU per 1 µg of the protein by the LAL method.

蛋白序列

AVRPLRRRQPKKSNELPQANRLPGIFDDVHGSHGRQVCRRHELYVSFQDLGWLDWVIAPQG
YSAYYCEGECSEPLDSCMNATNHAILQSLVHLMMPDAVPKACCAPTKLSATSVLYYDSSNNVI
LRKHRNMVVKACGCH with polyhistidine tag at the N-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

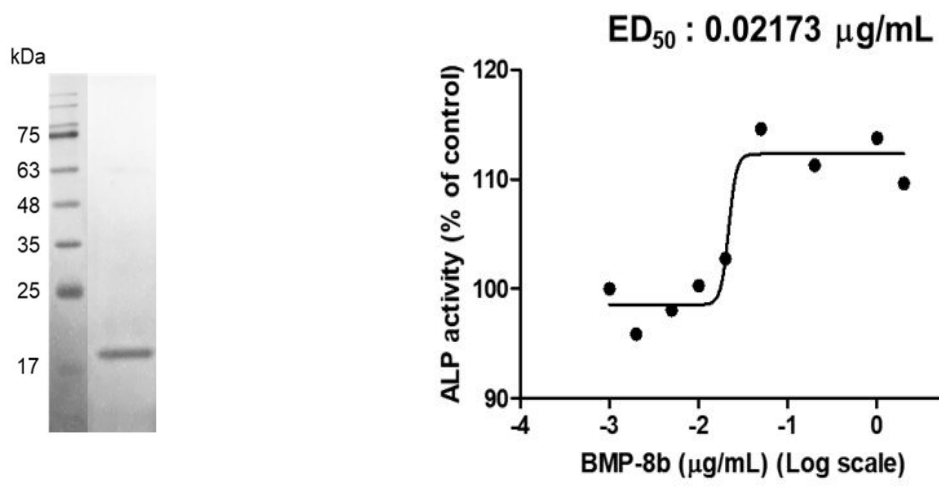
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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-

8b

Human BMP-8b, His Tag, E. coli induced alkaline phosphatase

production by ATDC5 cells, with the ED₅₀ at 21.73 ng/mL.

For Research Use or Further Manufacturing Only

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