

CHAMOT

重组人/小鼠/大鼠骨形态发生蛋白-2 /Recombinant BMP-2, Human/Mouse/Rat, Animal-Free

CM063-5HP

CM063-20HP

CM063-100HP

CM063-500HP

CM063-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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产品编号	CM063-5HP	CM063-20HP	CM063-100HP	CM063-500HP	CM063-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Bone Morphogenetic Protein-2 (BMP-2) is an extracellular multifunctional signaling cytokine that is also a member of the TGF- β family. BMP-2 can bind with the TGF- β receptor to active SMAD protein signal transduction. Moreover, it engages in the path of signals such as Wnt and Notch. BMP-2 plays an essential role in the growth of hard bones and cartilage and involved in the differentiation of osteoblasts.

别称

bone morphogenetic protein 2, Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), BMP2

蛋白编码

P12643

分子量

The protein has a calculated MW of 13.76 kDa. The protein migrates as 14 kDa under reducing condition (SDS-PAGE analysis).

表达系统

Escherichia coli

纯度

>95% 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 <1.0 µg/mL.

内毒素检测

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

蛋白序列

MQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTN
HAIVQTLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVVKNYQDMVVEGCGCR 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

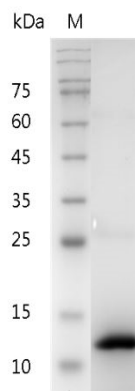
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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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