

CHAMOT

**重组人Noggin /Recombinant Noggin, Human,
Animal-Free**

CM172-5HP

CM172-20HP

CM172-100HP

CM172-500HP

CM172-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines



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重组人Noggin /Recombinant Noggin, Human, Animal-Free

产品编号	CM172-5HP	CM172-20HP	CM172-100HP	CM172-500HP	CM172-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Noggin is a 46.2 kDa bioactive protein, which exists as a disulfide-linked homodimer (each chain 23.1 kDa). Noggin binds members of the transforming Growth Factors-beta (TGF beta) superfamily signaling proteins, such as bone morphogenetic protein-4 (BMP-4), which inactivates their activities. As a extracellular antagonist of BMP proteins, Noggin involves in the development of many body tissues, including nerve tissue, muscles, and bones. In addition, Noggin is able to inhibit chondrocyte differentiation through its interaction with GDF5.

别称

NOG, Noggin, SYM1, symphalangism 1 (proximal), synostoses (multiple) syndrome 1, SYNS1, SYNS1A

蛋白编码

Q13253

分子量

The protein has a calculated MW of 24 kDa. The protein migrates as 27 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 inhibit BMP-4-induced alkaline phosphatase production by ATDC5 cells. The ED₅₀ for this effect is <0.05 µg/mL in the presence of 50 ng/mL of recombinant human BMP-4.

内毒素检测

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

蛋白序列

MQHYLHIRPAPSDNLPLVDLIEHPDPIFDPKEDLNETLLRSLGGHYDPGFMATSPPEDRPGG
GGGAAGGAEDLAELDQLLRQPSGAMPSEIKGLEFSEGLAQGKKQRLSKKLRRKLQMWLWS
QTFCPVLVYAWNDLGSRFWPRYVKVGSFCFSKRSCSVPEGMVCKPSKSVHLTVLRWRCQRRGG
QRCGWIPQIYPIISECKCSC with polyhistidine tag at the C-terminus

产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 7.4. 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

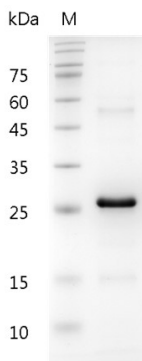
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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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