

CHAMOT

**重组小鼠趋化因子CXCL12 /Recombinant CXCL12,
Mouse, Animal-Free**

CM069-5MP

CM069-20MP

CM069-100MP

CM069-500MP

CM069-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组小鼠趋化因子CXCL12 /Recombinant CXCL12, Mouse, Animal-Free

产品编号	CM069-5MP	CM069-20MP	CM069-100MP	CM069-500MP	CM069-1000MP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

C-X-C motif chemokine 12 (CXCL12) also named stromal cell-derived factor 1 (SDF-1), which is a chemokine of the intercrine alpha family. CXCL12 is a 7.8 kDa protein containing 70 amino acid residues. CXCL12 has a key role in controlling the immune responses which is often induced by the lipopolysaccharide or IL-1. CXCL12 also activates the leukocytes during inflammation. CXCL12 induces the migration and proliferation of cells like hematopoietic progenitor, stem cells and leukocytes.

别称

C-X-C motif chemokine 12, PB, PBSF/SD, Pbsf, SDF-, Scyb1, Scyb12, Sdf, Sdf1, TLS, TP, Tlsf, Tpar1

蛋白编码

P40224

分子量

The protein has a calculated MW of 8.97 kDa. The protein migrates below 8-11 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 chemoattract human THP1 cells using a concentration range of 100-200 ng/mL.

内毒素检测

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

蛋白序列

MGKPVLSYRCPFRFFESHIRANVVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYL EKALNK 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

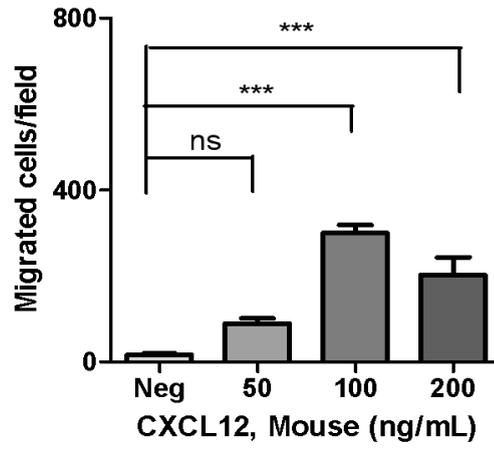
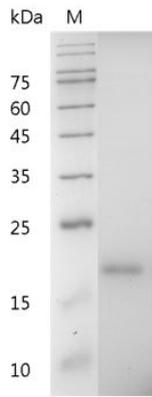
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant mouse
CXCL12

Activity analysis of recombinant mouse CXCL12, His Tag, E. coli.
Measure by its ability to chemoattract human THP1 cells using a
concentration range of 100-200 ng/mL.

For Research Use or Further Manufacturing Only

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