

# 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*



# 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

MGKPVSLSYRCPFRFFESHIANVVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYL 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 H<sub>2</sub>O 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

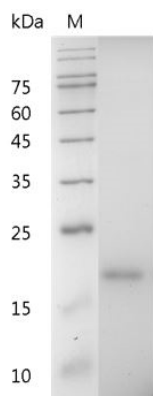
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

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

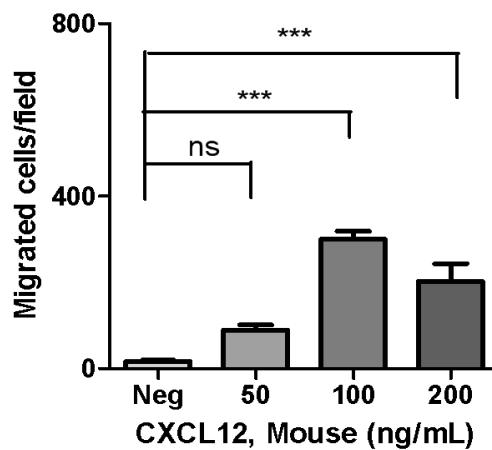
### 运输

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

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

Tel: 021-51880030 Mail: [info@chamot-bio.com](mailto:info@chamot-bio.com) QQ: 864920491