

# CHAMOT

**重组小鼠趋化因子CCL2 /Recombinant CCL2,  
Mouse, Animal-Free**

**CM072-5MP**



**CM072-20MP**



**CM072-100MP**



**CM072-500MP**



**CM072-1000MP**



**CHAMOT**

乔默®生物

Specialize In Cytokines

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## 重组小鼠趋化因子CCL2 /Recombinant CCL2, Mouse, Animal-Free

产品编号	CM072-5MP	CM072-20MP	CM072-100MP	CM072-500MP	CM072-1000MP
规格	5 μg	20 μg	100 μg	500 μg	1 mg

### 产品简介

**背景描述** C-C Motif Chemokine Ligand 2 (CCL2) is a 13.88 kDa cytokine with 125 amino acid residues and is also known as monocyte chemoattractant protein 1 (MCP1). CCL2 is mainly secreted from monocytes, macrophages, and dendritic cells. It regulates many biological functions, such as recruitments of monocytes, memory T cells, eosinophils, and dendritic cells, extravasation of helper T cells, response to TNF $\alpha$  and IFN $\gamma$ , and angiogenesis. In addition, upon binding with CCR4, it initiates leukocyte migration response to inflammation.

<b>别称</b>	C-C motif chemokine ligand 2, Monocyte Chemotactic Protein-1, MCP-1, JE
<b>蛋白编码</b>	P10148
<b>分子量</b>	The protein has a calculated MW of 14.65 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).
<b>表达系统</b>	Escherichia coli
<b>纯度</b>	>98% as determined by SDS-PAGE.
<b>生物活性</b>	Measure by its ability to chemoattract THP-1 cells using a concentration range of 10-100 ng/mL.
<b>内毒素检测</b>	<0.1 EU per 1 μg of the protein by the LAL method.
<b>蛋白序列</b>	QPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCADPKKEWVQTYIKNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSEANASTTFSTTSSTSVGVTSTVN with polyhistidine tag at the N-terminus.
<b>产品形式</b>	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.
<b>产品应用</b>	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 ( $\geq 20 \mu\text{l}$ ).
- 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

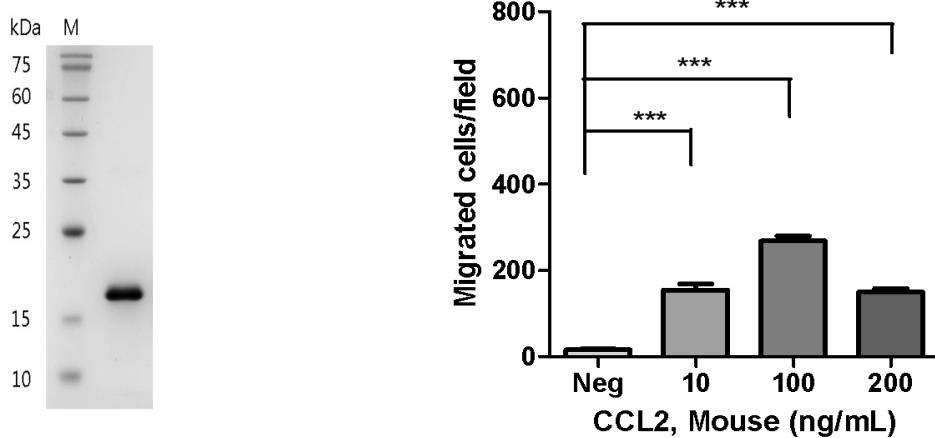
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



Activity analysis of recombinant mouse CCL2, His Tag, E. coli.

SDS-PAGE analysis of recombinant mouse CCL2      Measure by its ability to chemoattract human THP1 cells using a concentration range of 10-100 ng/mL.

## 文献引用

- M2 macrophages with inflammation tropism facilitate cementoblast mineralization. *J Periodontol.* 2022 Aug 1. (IF 6.993)(Mouse CCL2)
- Dual-Engineered Macrophage-Microbe Encapsulation for Metastasis Immunotherapy. *Adv Mater.* 2024 Jul 18:e2406140. (IF 27.4)(Mouse CCL2)

For Research Use or Further Manufacturing Only

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