

# CHAMOT

**重组猪白细胞介素1 alpha /Recombinant IL-1 alpha,  
Swine, Animal-Free**

CM001-5SP

CM001-20SP

CM001-100SP

CM001-500SP

CM001-1000SP



CHAMOT

乔默®生物

*Specialize In Cytokines*



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## 重组猪白细胞介素1 alpha /Recombinant IL-1 alpha, Swine, Animal-Free

产品编号	CM001-5SP	CM001-20SP	CM001-100SP	CM001-500SP	CM001-1000SP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Interleukin 1-alpha (IL-1 $\alpha$ ), also named hematopoietin 1, is a 17.65 kDa cytokine with 159 amino acid residues. IL-1 $\alpha$  is mainly expressed in macrophages, neutrophils, epithelial cells, and endothelial cells. When IL-1 $\alpha$  binds to the IL-1 receptor, It mediates a wide variety of biological processes such as cell division, angiogenesis, production of interleukin-2, and cellular sodium ion homeostasis. In addition, IL-1 $\alpha$  also plays a critical role in immune responses, such as fever and inflammation, and triggers tumor necrosis factor-alpha.

#### 别称

interleukin 1 alpha, IL1A

#### 蛋白编码

P18430

#### 分子量

The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 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 induce D10.G4.1 cells proliferation. The ED<sub>50</sub> for this effect is <50 pg/mL.

#### 内毒素检测

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

#### 蛋白序列

MSATYSFQSNMKYNFMRVINHQICILNDARNQSIIRDPSGQYLMAAVLNNLDEAVKFDMAA  
YTSNDDSQLPVTLRISETRLVSAQNEDEPVLLKELPETPKTIKDETSLLFFWEKHGHNMDYFKSA  
AHPKLFIAATRQEKLHMAPGLPSVTDFQILENQS 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

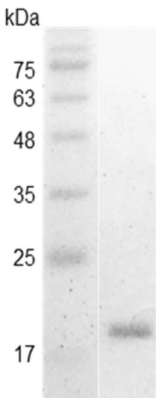
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



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