

CHAMOT

重组小鼠白细胞介素1 alpha /Recombinant IL-1 alpha, Mouse, Animal-Free

CM001-5MP

CM001-20MP

CM001-100MP

CM001-500MP

CM001-1000MP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组小鼠白细胞介素1 alpha /Recombinant IL-1 alpha, Mouse, Animal-Free

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

产品简介

背景描述

Interleukin-1 alpha (IL1 alpha or IL1 α) is a member of the interleukin-1 cytokine family, found constitutively present in epithelial layers of the entire gastrointestinal tract, lung, liver, kidney, endothelial cells, and astrocytes. The synthesized IL-1 alpha is a 31 kDa inactive precursor and can be cleaved by intracellular caspase-1 or extracellular proteases to generate the bioactive 17 kDa form and the 16 kDa N-terminal cleavage product. Both precursor and mature IL-1 alpha protein bind to the IL-1 receptor (IL-1R), initiating a cascade of inflammatory cytokines and chemokines production such as IL-6, IL-8, and TNF, in response to viral and bacterial pathogens conditions. IL-1 alpha plays a central role in immune-surveillance mechanisms, stimulating macrophages, neutrophils, and CD8+ T cells activity.

别称

interleukin 1 alpha, Hematopoietin-1, Lymphocyte-Activating Factor (LAF), Endogenous Pyrogen (EP), Leukocyte, IL1. IL1A

蛋白编码

P01582

分子量

The protein has a calculated MW of 18.93 kDa. The protein migrates as 20 kDa under reducing condition (SDS-PAGE analysis).

表达系统

Escherichia coli

纯度

>95% as determined by SDS-PAGE.

生物活性

Measure by its ability to induce D10.G4.1 cells proliferation. The ED₅₀ for this effect is <5 pg/mL. The specific activity of recombinant mouse IL-1 alpha is > 2 x 10⁸ IU/mg.

内毒素检测

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

蛋白序列

MSAPYTYQSDLRYKLMKLVQRQKFMNDSLNTIYQDVKHYLSTTWLNDLQQEVKFDMYA
YSSGGDDSKYPVTLKISDSQLFVSAQGEDQPVLKELPETPKLITGSETDLIFFWKSINSKNYFTS
AAYPELFIATKEQSRVHLARGLPSMTDFQIS 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 $\mu\text{g}/\text{mL}$.
- 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 $\mu\text{g}/\text{ml}$.

- 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

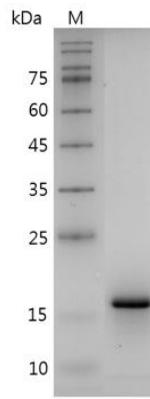
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant mouse IL-1 alpha

For Research Use or Further Manufacturing Only

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