

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 α), also named hematopoietin 1, is a 17.65 kDa cytokine with 159 amino acid residues. IL-1 α is mainly expressed in macrophages, neutrophils, epithelial cells, and endothelial cells. When IL-1 α 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 α 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 ED₅₀ 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 MSATYSFQSNMKYNFMRVINHQILNDARNQSIIRDPSGQYLMAAVLNNLDEAVKFDMAAYTSNDDSQLPVTLRISETRLFVSAQNEDEPVLLKELPETPKTIKDETSLLFFWEKHGNDYFKSAAHPKLFIA TRQEKL VHMAPGLPSVTDFQILENQS 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

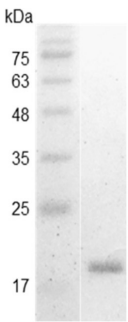
储存

Lyophilized Protein: Store at -20°C for 1 year.
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 swine IL-1 alpha

