

CHAMOT

重组人白细胞介素1受体拮抗剂 /Recombinant IL-1RA, Human, Animal-Free

CM003-20HP

CM003-100HP

CM003-500HP

CM003-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人白细胞介素1受体拮抗剂 /Recombinant IL-1RA, Human, Animal-Free

产品编号	CM003-20HP	CM003-100HP	CM003-500HP	CM003-1000HP
规格	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述

Interleukin 1 receptor antagonist (IL-1RA) is a 17.26 kDa member of IL-1 family with 153 amino acid residues. IL-1RA is expressed by peripheral blood cells, lungs, spleen, liver and is secreted from monocytes, macrophages, neutrophils, and other cells. Inhibits the activity of interleukin-1 by binding to receptor IL1R1. IL-1RA can modulate a variety of interleukin-1 related immune and inflammatory responses, particularly in the acute phase of infection and inflammation.

别称

interleukin 1 receptor antagonist, ICIL-1RA, IRAP, IL-1RN, IL1RA

蛋白编码

P18510

分子量

The protein has a calculated MW of 18.07 kDa. The protein migrates as 19 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 inhibit IL-1 alpha -dependent proliferation in D10.G4.1 cells. The ED₅₀ for this effect is <50 ng/mL.

内毒素检测

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

蛋白序列

MRPSGRKSSKMQAFRIWDVNQKTFYLRNNQLVAGYLQGPNVNLEEKIDVVPIEPHALFLGIH
GGKMCLSCVKSGDETRLQLEAVNITDLSNRKQDKRFAFIRSDSGPTTSFESAACPGWFLCTA
MEADQPVSLTNMPDEGVMVTKFYFQEDE 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

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

储存

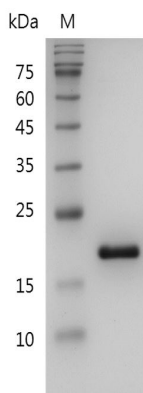
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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

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