

CHAMOT

**重组人类干扰素beta 1b /Recombinant IFN beta 1b,
Human, Animal-Free**

CM080-5HP

CM080-20HP

CM080-100HP

CM080-500HP

CM080-1000HP



CHAMOT

乔默®生物

Specialize In Cytokines

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重组人类干扰素beta 1b /Recombinant IFN beta 1b, Human, Animal-Free

产品编号	CM080-5HP	CM080-20HP	CM080-100HP	CM080-500HP	CM080-1000HP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

产品简介

背景描述 Interferon-beta 1b (IFN-beta 1b) is a leukocyte interferon, which is a variant of Interferon-beta. IFN-beta 1b is a 19 kDa protein containing 166 amino acid residues. It could bind the interferon receptors that activates the signal transduction of immune responses through the Jak/STAT pathway in leukocytes and lymphoblastoid cells.

别称 interferon beta 1b, IFNB1, Type I Interferon

蛋白编码 P01574

分子量 The protein has a calculated MW of 20.84 kDa. The protein migrates as 15 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 cytotoxicity in TF-1 cells. The ED₅₀ for this effect is <0.1 ng/mL. The specific activity of recombinant human IFN beta 1b is approximately >1 x10⁷ IU/ mg.

内毒素检测 <0.1 EU per 1 µg of the protein by the LAL method.

蛋白序列 MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKRYYG RILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGylRN 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 8.0. 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

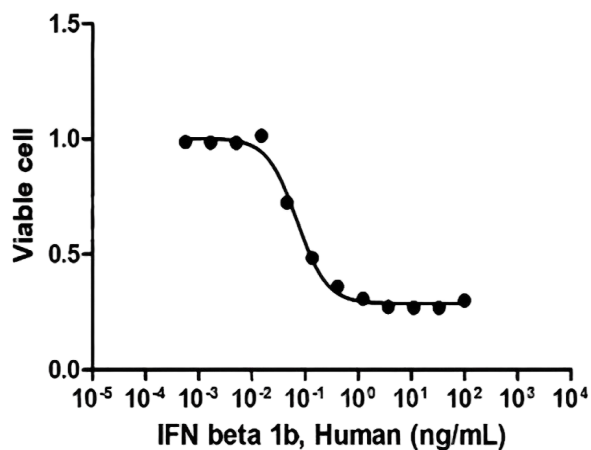
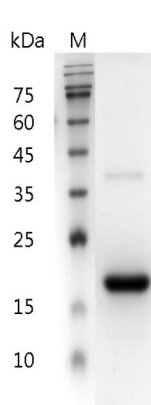
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



Activity analysis of recombinant Human IFN Beta 1b, His Tag, E. coli.

SDS-PAGE analysis of recombinant human IFN beta 1b

Measure by its ability to induce cytotoxicity in TF-1 cells. The ED50 for this effect is <0.1 ng/mL. The specific activity of recombinant human IFN beta 1b is approximately >1 x10⁷ IU/ mg.

文献引用

- Multiomic characterization of response and resistance to neoadjuvant chemoradiotherapy in esophageal squamous cell carcinoma : Translational Cancer Research. Translational Cancer Research 15(4):244, April 30, 2026. (IF 1.7)(Human IFN-β)

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. www.chamot-bio.com

Tel: 021-51880030 Mail: info@chamot-bio.com QQ: 864920491