

# 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 ED<sub>50</sub> for this effect is <0.1 ng/mL. The specific activity of recombinant human IFN beta 1b is approximately >1 x10<sup>7</sup> IU/ mg.

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

**蛋白序列** MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYEML QNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKRYYG RILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRLN 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 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

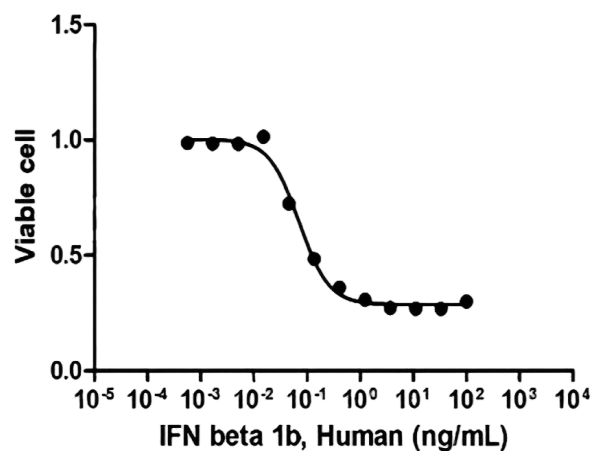
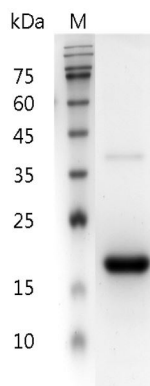
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



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  $>1 \times 10^7$  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- $\beta$ )

For Research Use or Further Manufacturing Only

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