

# CHAMOT

**重组小鼠/大鼠转化生长因子 $\beta$ -1 /Recombinant TGF  
beta 1, Mouse/Rat, Animal-Free**

**CM057-5MP**

**CM057-20MP**

**CM057-100MP**

**CM057-500MP**

**CM057-1000MP**



**CHAMOT**

乔默®生物

*Specialize In Cytokines*

# CONTENT

1 产品简介

2 产品使用

3 产品储存/运输

4 实验数据展示

5 文献引用

## 重组小鼠/大鼠转化生长因子 $\beta$ -1 /Recombinant TGF beta 1, Mouse/Rat, Animal-Free

产品编号	CM057-5MP	CM057-20MP	CM057-100MP	CM057-500MP	CM057-1000MP
规格	5 $\mu$ g	20 $\mu$ g	100 $\mu$ g	500 $\mu$ g	1 mg

### 产品简介

#### 背景描述

The transforming Growth Factors beta (TGF beta) family of cytokines are ubiquitous, multifunctional, and essential to survival. They play the central roles in growth, development, inflammation, repair, and host immunity. The mammalian TGF beta isoforms (TGF beta 1, beta 2 and beta 3) are secreted as potential precursors and possess a variety of cell surface receptors and produces at least two mediate signal transductions.

#### 别称

transforming growth factor beta 1, Differentiation inhibiting factor, Cartilage-inducing factor, Tgfb-1

#### 蛋白编码

P04202(Mouse), P17246(Rat)

#### 分子量

The protein has a calculated MW of 13.8 kDa. The protein migrates as 16 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 the IL-4 dependent proliferation in HT-2 cells. The ED<sub>50</sub> for this effect is <0.1 ng/mL.

#### 内毒素检测

<0.1 EU per 1  $\mu$ g of the protein by the LAL method.

#### 蛋白序列

MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVL  
ALYNQHNP GASASPCCVPALEPLPIVYVGRKPKVEQLSNMIVRSCKCS with  
polyhistidine tag at the C-terminus.

#### 交叉反应

Rat (99.12%)

#### 产品形式

The protein was lyophilized from a 0.2  $\mu$ m filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 3.5. If you have any concerns or special requirements, please confirm with us.

## 产品使用

1. Before opening, centrifuge at 3000 rpm for 5 mins.

**2. Initial Reconstitution**

- Reconstitute the Lyophilized Protein in sterile 10 mM HCl 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.

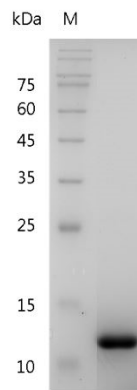
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 mouse TGF beta 1

## 文献引用

- Chikusetsusaponin IVa targeted YAP as an inhibitor to attenuate liver fibrosis and hepatic stellate cell activation. Chin Med. 2025 Mar 17;20(1):36. (IF 5.3)(Mouse TGF- $\beta$ 1)

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

Tel: 021-51880030 Mail: [info@chamot-bio.com](mailto:info@chamot-bio.com) QQ: 864920491