

# CHAMOT

**重组猪转化生长因子beta 1 /Recombinant TGF beta 1, Swine, Animal-Free**

CM015-5SP

CM015-20SP

CM015-100SP

CM015-500SP

CM015-1000SP



CHAMOT

乔默®生物

*Specialize In Cytokines*



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## 重组猪转化生长因子beta 1 /Recombinant TGF beta 1, Swine, Animal-Free

产品编号	CM015-5SP	CM015-20SP	CM015-100SP	CM015-500SP	CM015-1000SP
规格	5 µg	20 µg	100 µg	500 µg	1 mg

### 产品简介

#### 背景描述

Transforming Growth Factors beta 1 (TGF beta 1) is the cytokine of the TGF-beta family, which is a 12.5 kDa protein containing 113 amino acid residues. TGF beta 1 is produced by white blood cell which plays an important role in inflammation, cell proliferation and differentiation. TGF beta 1 also has several functions about cancer and auto-immune diseases. TGF-beta 1 not only can activate the smad signaling but also can induce the MAPK, Rhoa and RAS.

#### 别称

transforming growth factor beta 1, TGF-BETA-1, TGFB1

#### 蛋白编码

P07200

#### 分子量

The protein has a calculated MW of 13.73 kDa. The protein migrates as 11-17 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-4-induce 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 µg of the protein by the LAL method.

#### 蛋白序列

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

#### 产品形式

The protein was lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5. 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 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

**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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