

# CHAMOT

**重组人转化生长因子 $\alpha$  /Recombinant TGF alpha,  
Human, Animal-Free**

CM087-20HP

CM087-100HP

CM087-500HP

CM087-1000HP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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## 重组人转化生长因子 $\alpha$ /Recombinant TGF alpha, Human, Animal-Free

产品编号	CM087-20HP	CM087-100HP	CM087-500HP	CM087-1000HP
规格	20 $\mu$ g	100 $\mu$ g	500 $\mu$ g	1 mg

### 产品简介

#### 背景描述

Transforming Growth Factors alpha (TGF- $\alpha$ ) is a 5.68 kDa member of the epidermal Growth Factors with 51 amino acid residues. TGF- $\alpha$  is mainly expressed from brain, skin, epithelial cell (pancreatic endocrine cells, urothelial cells, oligodendrocyte precursor cells, etc.). TGF- $\alpha$  is a regulator of cell proliferation and differentiation via bind to the EGFR and to act synergistically with TGF  $\beta$ . TGF- $\alpha$  also associates with myriad forms of cancer.

#### 别称

transforming growth factor alpha, Sarcoma growth factor, TGF-type I, ETGF, TGFA

#### 蛋白编码

P01135

#### 分子量

The protein has a calculated MW of 6.49 kDa. The protein migrates as 7 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 3T3 cells proliferation. The ED<sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF alpha is > 5 x 10<sup>6</sup> IU/mg.

#### 内毒素检测

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

#### 蛋白序列

MVVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA with polyhistidine tag at the C-terminus.

#### 产品形式

The protein was lyophilized from a 0.2  $\mu$ m filtered solution containing 20 mM sodium citrate and 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 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

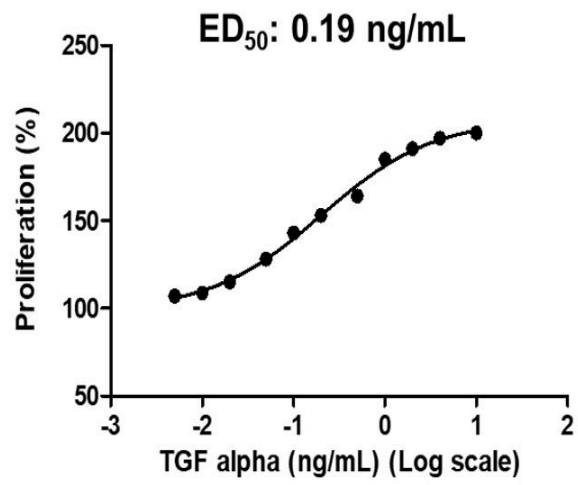
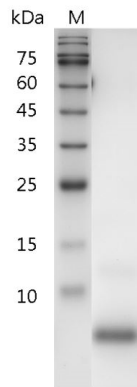
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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



SDS-PAGE analysis of recombinant human TGF

alpha

Human TGF Alpha, His Tag, E. coli induced 3T3 cell proliferation,

with the ED<sub>50</sub> at 0.19 ng/mL.

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