

CHAMOT

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

CM087-20HP

CM087-100HP

CM087-500HP

CM087-1000HP



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

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

产品编号	CM087-20HP	CM087-100HP	CM087-500HP	CM087-1000HP
规格	20 μ g	100 μ g	500 μ g	1 mg

产品简介

背景描述

Transforming Growth Factors alpha (TGF- α) is a 5.68 kDa member of the epidermal Growth Factors with 51 amino acid residues. TGF- α is mainly expressed from brain, skin, epithelial cell (pancreatic endocrine cells, urothelial cells, oligodendrocyte precursor cells, etc.). TGF- α is a regulator of cell proliferation and differentiation via bind to the EGFR and to act synergistically with TGF β . TGF- α 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 ED₅₀ for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF alpha is > 5 x 10⁶ IU/mg.

内毒素检测

<0.1 EU per 1 μ 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 μ 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 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

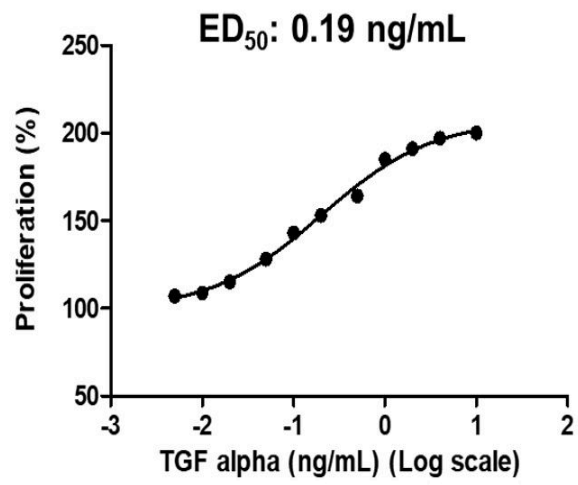
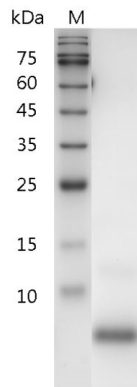
Initial Reconstitution: Store at 2°C to 8°C for up to 1 week.

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



SDS-PAGE analysis of recombinant human TGF

alpha

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

with the ED₅₀ at 0.19 ng/mL.

For Research Use or Further Manufacturing Only

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