

# CHAMOT

**重组小鼠/大鼠肿瘤坏死因子 $\alpha$  /Recombinant TNF  
alpha, Mouse/Rat, Animal-Free**

CM038-5MP

CM038-20MP

CM038-100MP

CM038-500MP

CM038-1000MP



CHAMOT

乔默®生物

*Specialize In Cytokines*

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## 重组小鼠/大鼠肿瘤坏死因子 $\alpha$ /Recombinant TNF alpha, Mouse/Rat, Animal-Free

产品编号	CM038-5MP	CM038-20MP	CM038-100MP	CM038-500MP	CM038-1000MP
规格	5 $\mu$ g	20 $\mu$ g	100 $\mu$ g	500 $\mu$ g	1 mg

### 产品简介

#### 背景描述

Tumor necrosis factor alpha (TNF alpha) stimulates the acute phase of the immune response. In response to a pathogen, TNF alpha is one of the first to be released and can apply its effects in many organs. TNF alpha stimulates the release of corticotropic releasing hormone, suppresses appetite, and induces fever, in the hypothalamus. TNF increase vasodilation and loss of vascular permeability, it helps recruit lymphocyte, neutrophil, and monocyte to the inflammation site by regulating chemokine release.

#### 别称

tumor necrosis factor alpha, TNFSF2, Cachectin, Differentiation-inducing factor (DIF), Necrosin, Cytotoxin, TNSF1A, TNF-a

#### 蛋白编码

P06804(Mouse), P16599(Rat)

#### 分子量

The protein has a calculated MW of 18.2 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 induce cytotoxicity in L929 cells in the presence of actinomycin D. The ED<sub>50</sub> for this effect is <40 pg/mL. The specific activity of recombinant mouse TNF alpha is approximately >2.5x 10<sup>7</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

MLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNLVVPADGLYLVY  
SQVLFKGQGCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELKPWYEPIYLGGVFQ  
LEKGDQLSAEVNLPKYL DFAESGQVYFGVIAL with polyhistidine tag at the C-terminus.

#### 交叉反应

Rat (94.27%)

#### 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

#### 储存

**Lyophilized Protein:** Store at -20°C for 1 year.

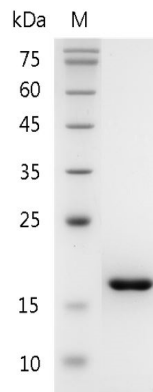
**Initial Reconstitution:** Store at 2°C to 8°C for up to 1 week.

**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 TNF alpha

## 文献引用

- Exosome-equipped TNF antisense oligodeoxynucleotide or 2-deoxy-D-glucose ameliorated nonalcoholic steatohepatitis by modulating superoxide dismutase 1 in mice. Redox Biol. 2025 Mar;80:103488. (IF 10.7)(Mouse TNF-alpha)

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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