



Technical Data Sheet / 技术说明书

Recombinant Human TNF- α

重组人肿瘤坏死因子- α

Catalog Number / 货号: C025

Host / 表达系统: E. coli (大肠杆菌)

Form / 性状: Liquid (澄清透明液体)

Regulatory Status: For Research Use Only (仅供科研使用)

1. Product Overview / 产品概览

| | |
|------------------------|---|
| Feature / 特性 | Specifications / 规格指标 |
| Synonyms / 别名 | Cachectin, 恶液质素 |
| Species / 种属 | Human / 智人 |
| UniProt / Gene ID | P01375 / 7124 |
| Molecular Weight / 分子量 | ~17 kDa |
| Concentration / 浓度 | 200 $\mu\text{g/mL}$ |
| Endotoxin / 内毒素 | < 0.5 EU/ μg by LAL method (LAL 法) |
| Formulation / 组分 | NaAc buffer with Mannitol (NaAc 缓冲液, 含甘露醇) |

2. Biological Activity / 生物活性

- Assay Method:** Proliferation assay using L-929 mouse fibroblast cells.
- Performance:** The **ED₅₀** is < **1.0 ng/mL**, corresponding to a specific activity of > **1.0 $\times 10^6$ IU/mg**.
- 生物学活性:** 经 L-929 小鼠成纤维细胞检测, 其半数效应浓度 (ED₅₀) < 1.0 ng/mL, 对应比活性高于 1.0 $\times 10^6$ units/mg。

3. Amino Acid Sequence / 氨基酸序列

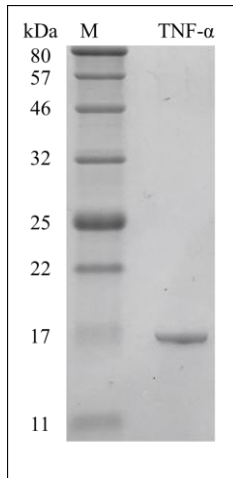
157 aa, Mature Human TNF- α sequence:

VRSSSRTPSD KVAHVVANP QAEGQLQWLN RRANALLANG
VELRDNQLVV PSEGLYLIYS QVLFKGGQCP STHVLLTHTI
SRIAVSYQTK VNLLSAIKSP CQRETPEGAE AKPWYEPIYL



GGVFQLEKGD RLSAEINRPD YLDFAESGQV YFGIIAL

4. Quality Control / 质量控制



- **SDS-PAGE Analysis:** Purity > 98%
- **SDS-PAGE 凝胶电泳图:** 纯度 > 98%

5. Usage & Storage / 使用与储存

- **Storage (储存):**
 - **Unopened:** Stable for 1 months at 2°C to 8°C. (4°C 下稳定保存一个月)
 - **Opened/Diluted:** Aliquot and store at -20°C or -80°C for long-term stability. Avoid repeated freeze-thaw cycles. (分装并在 -20°C 以下保存, 避免反复冻融)
- **Handling (使用指导):**
 - Centrifuge the vial briefly before opening. (使用前请先离心)
 - It is recommended to dilute in PBS containing **0.1% BSA** or **Human Serum Albumin (HSA)** to maintain protein stability. (建议使用含 0.1% BSA 或人血白蛋白的 PBS 进行稀释)
 - Avoid diluting to a final concentration of less than **50 µg/mL**. (避免稀释至 50 µg/mL 以下分装保存)

6. Contact & Support / 联系方式

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