



# Technical Data Sheet / 技术说明书

## Recombinant Human TGF- $\beta$

### 重组人转化生长因子- $\beta$

Catalog Number / 货号: C013

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          | Transforming Growth Factor Beta 1          |
| Species / 种属           | Human / 智人                                 |
| UniProt / Gene ID      | P01137 / 7040                              |
| Molecular Weight / 分子量 | ~10 kDa                                    |
| Concentration / 浓度     | 100 $\mu$ g/mL                             |
| Purity / 纯度            | > 98% as determined by SDS-PAGE            |
| Endotoxin / 内毒素        | < 0.5 EU/ $\mu$ g 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 HT-2 cells.
- Performance:** The **ED<sub>50</sub>** is **< 1.0 ng/mL**, corresponding to a specific activity of **> 1.0  $\times$  10<sup>6</sup> IU/mg**.
- 生物学活性:** 经 HT-2 细胞检测, 其半数效应浓度 (ED<sub>50</sub>) < 1.0 ng/mL, 对应比活性高于 1.0  $\times$  10<sup>6</sup> units/mg。

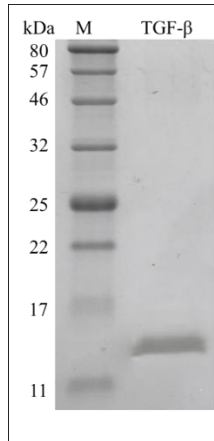
## 3. Amino Acid Sequence / 氨基酸序列

113 aa, Mature Human TGF- $\beta$  sequence:



MALDTNYCFS STEKNCCVRQ LYIDFRKDLG WKWIHEPKGY  
HANFCLGPCP YIWSLDTQYS KVLALYNQHN PGASAAPCCV  
PQALEPLPIV YYVGRKPKVE QLSNMIVRSC KCS

#### 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 12 months at -20°C. (-20°C 下稳定保存一年)
  - **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 **100 µg/mL**. (避免稀释至 100 µg/mL 以下分装保存)

#### 6. Contact & Support / 联系方式

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