

Rev05
Update: Jan,19,2024

DATASHEET

TGF- β 1, Mouse

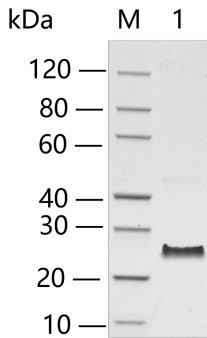
Cat. No.: Z03431

Product Introduction

| | |
|----------------------------------|--|
| Species | Mouse |
| Protein Construction | TGF-β1 (Ala279-Ser390) Accession # P04202 |
| Purity | > 95% as analyzed by SDS-PAGE |
| Endotoxin Level | < 1 EU/ μ g of protein by LAL method |
| Biological Activity | ED ₅₀ is 5-25 pg/ml, measured by its ability to inhibit IL-4-dependent proliferation of TF-1 human erythroleukemic cells. |
| Expression System | Human Cells |
| Apparent Molecular Weight | ~12.8 kDa, on SDS-PAGE under reducing conditions. |
| Formulation | Lyophilized from a 0.2 μ m filtered solution in 4 mM HCl. |
| Reconstitution | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O up to 100 μ g/ml. |
| Storage & Stability | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles. |

Examples

Lane 1: 2 μ g of TGF- β 1, Mouse, non-reducing (NR)
> 95% as analyzed by SDS-PAGE



Background

Target Background : Transforming growth factor beta 1 (TGF β 1) is the prototype of a growing superfamily of peptide growth factors and plays a prominent role in a variety of cellular processes, including cell-cycle progression, cell differentiation, reproductive function, development, motility, adhesion, neuronal growth, bone morphogenesis, wound healing, and immune surveillance. TGF- β 1, TGF- β 2 and TGF- β 3 signal via the same heteromeric receptor complex, consisting of a ligand binding TGF- β receptor type II (T β R-II), and a TGF- β receptor type I (T β R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF- β expression is found in cartilage, bone, teeth, muscle, heart, blood vessels, hematopoietic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

Synonyms : TGF-beta-1; CED; DPD1; TGFB; TGF-b1; TGFB1; CEDLAP; latency-associated peptide; TGF beta; TGF-beta 1 protein; transforming growth factor beta-1

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.

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