

Rev09
 Update: Oct,23,2025

DATASHEET

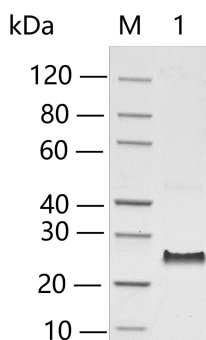
TGF- β 1, Mouse

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 μ g/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 4mM HCl up to 100 μ g/ml.
Storage & Stability	Upon receiving, this product remains stable for 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 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.

Manufacturer: Nanjing GenScript Biotech Co., Ltd. No. 28Yongxi Road, Jiangning District, Nanjing, Jiangsu, China