

Rev05
 Update: Jan,19,2024

DATASHEET

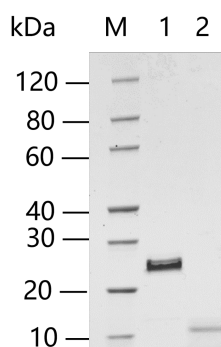
TGF- β 3, Human

Cat. No.: Z03430

Product Introduction

Species	Human
Protein Construction	TGF-β3 (Ala301-Ser412) Accession # P10600
Purity	> 95% as analyzed by SDS-PAGE
Endotoxin Level	< 1 EU/ μ g of protein by LAL method
Biological Activity	ED ₅₀ < 0.2 ng/ml, measured in a cell proliferation assay using mouse HT-2 cells.
Expression System	Human Cells
Apparent Molecular Weight	~12.7 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 3, Human, non-reducing (NR)

Lane 2: 2 μ g of TGF- β 3, Human, reducing (R)

> 95% as analyzed by SDS-PAGE

Background

Target Background : Transforming growth factor beta 3(TGFB3) is a member of a TGF- β superfamily which is defined by their structural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3 becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin -1, and a subset of integrins. It binds with high affinity to TGF- β RII, a type II serine/threonine kinase receptor. TGFB3 is involved in cell differentiation, embryogenesis and development. It is believed to regulate molecules involved in cellular adhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF- β 3, mammals develop a deformity known as a cleft palate.

Synonyms : Transforming growth factor beta-3; TGFB3; TGF-beta-3; Latency-associated peptide; LAP

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

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