

TGF-β1

Catalog # PVGS1550

Product Information

Primary Accession P04202
Species Mouse

Sequence Ala279-Ser390

Purity > 95% as analyzed by SDS-PAGE

Endotoxin Level

Biological Activity ED₅₀ 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

Formulation Lyophilized from a 0.2 Im 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

ddH₂O up to 100 □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.

Additional Information

Gene ID 21803

Other Names Transforming growth factor beta-1 proprotein, Latency-associated peptide,

TGF-beta-1, Tgfb1 {ECO:0000312 | MGI:MGI:98725}

Target Background Transforming growth factor beta 1 (TGFβ1) 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.

Protein Information

Name Tgfb1 {ECO:0000312 | MGI:MGI:98725}

Function Transforming growth factor beta-1 proprotein: Precursor of the

Latency-associated peptide (LAP) and Transforming growth factor beta-1 (TGF-beta-1) chains, which constitute the regulatory and active subunit of

TGF-beta-1, respectively.

Cellular Location [Latency-associated peptide]: Secreted, extracellular space, extracellular

matrix {ECO:0000250 | UniProtKB:P01137}

Tissue Location Expressed in cardiomyocytes (PubMed:26858265). Weakly expressed in the

mammary glands, with a slight increase of expression following onset of

involution (PubMed:19745830)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.