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TGF-β2

Catalog # PVGS1521

Specification

TGF-β2 - Product Information

Primary Accession P27090

Species
Mouse

Sequence
Ala303-Ser414

Purity
> 95% as analyzed by SDS-PAGE

Endotoxin Level
< 1 EU/ µg of protein by LAL method

Biological Activity
ED₅₀ < 0.2 ng/ml, measured in a cell proliferation assay using mouse HT-2 cells.

Expression System
Human Cells

Formulation **Lyophilized from a 0.2 µm 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 4 mM HCl to 100 µg/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.

TGF-β2 - Additional Information

Gene ID 21808

Other Names
Transforming growth factor beta-2 proprotein, Latency-associated peptide, LAP, Transforming growth factor beta-2, TGF-beta-2, Tgfb2

Target Background
Transforming growth factor beta 2 (TGF-β2) is a member of TGF-beta superfamily that shares a characteristic cysteine knot structure. Mice with TGF-β2 gene deletion show defects in development of cardiac, lung, craniofacial, limb, spinal column, eye, inner ear and urogenital systems. All TGF-β isoforms signal via the same heteromeric receptor complex, consisting of a ligand binding TGF-β receptor type II (TβR-II), and a TGF-β receptor type I (TβR-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.

TGF-β2 - Protein Information

Name Tgfb2

Function
[Transforming growth factor beta-2 proprotein]: Precursor of the Latency-associated peptide (LAP) and Transforming growth factor beta-2 (TGF-beta-2) chains, which constitute the regulatory and active subunit of TGF-beta-2, respectively.

Cellular Location
[Latency-associated peptide]: Secreted, extracellular space, extracellular matrix {ECO:0000250|UniProtKB:P01137}

TGF-β2 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TGF-β2 - Images