Recombinant Human Transforming Growth Factor, Beta 1

Human, Recombinant (TGFB1)
Expressed in CHO Cells
Cat. No. TGFB1-346H
Lot. No. (See product label)

PRODUCT INFORMATION

Description: Transforming growth factor beta 1 or TGF-β1 is a multifunctional cytokine that regulates the proliferation and differentiation of cells specific to bone like chondrocytes, osteoblasts, osteoclasts including mesenchymal precursor cells. It is known to promote the pathogenesis of lung fibrosis and acts as a tumor suppressor in normal cells. TGF-beta1 can promote mechanical strength in healing Achilles tendons by regulating collagen synthesis, cross-link formation, and matrix remodeling.

Source: CHO cells.

Molecular Weight: The predicted molecular weight of Recombinant Human TGF-β1 is 25 kDa.

State Of Matter: Lyophilized.

Formulation: This recombinant protein was lyophilized from a 0.2 μm filtered solution in 30% acetonitrile (CH₃CN) and 0.1% trifluoroacetic acid (TFA).

Purity: >97% by SDS Page and analyzed by silver stain.

Endotoxin: <1.0 EU/μg as determined by the LAL method.

Biological Activity: The biological activity of Human LAP was determined by its ability to inhibit TGF-β1 activity on mouse HT-2 cells. The ED₅₀ for this effect is typically 50 - 300 ng/mL in the presence of 1 ng/mL of TGF-β1.

Storage: This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

REFERENCES


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