

Recombinant Human TGF-beta 1 Protein

Cat. No. 110901

DESCRIPTION

Expression system	CHO Cells
Amino acid sequence	Ala279-Ser390, Accession # P01137
Molecular mass	Recombinant Human TGF-beta 1 Protein, a disulfide-linked homodimer, each subunit containing 112 amino acid residues, has a predicted molecular mass of approximately 25.6 kDa.

SPECIFICATIONS

Purity	> 98% by SDS-PAGE gel and HPLC analyses.
Endotoxin	Less than 0.01 EU/μg of rHuTGF-β1 as determined by LAL test.
Activity	The ED ₅₀ was determined by TGF-beta1's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is 0.05 ng/ml, corresponding to a specific activity of 2×10^7 units/mg.
Formulation	Lyophilized from a 0.22 μm filtered solution in Acetonitrile and TFA. See CoA for details.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitute in sterile 4 mM HCl to a concentration of 0.1-1.0 mg/mL. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPING & STORAGE

Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Please use a manual defrost freezer and avoid repeated freeze-thaw cycles. ● Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for 12 months after receipt. ● Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 1 month. ● Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.

BACKGROUND

Transforming Growth Factor β-1 (TGFβ-1) is a secreted protein which belongs to the TGF-β family. TGFβ-1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGFβ-1 performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. The precursor is cleaved into a latency-associated peptide (LAP) and a mature TGFβ-1 peptide. TGFβ-1 may also form heterodimers with other TGFβ family members. It has been found that TGFβ-1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.

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For research, laboratory or further evaluation purposes. NOT for Human Use.

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