

TGF beta 1 Protein, Human, Recombinant (Avi), Biotinylated

General Information

Synonyms:	TGF-Beta-1;TGFB1;Transforming Growth Factor β -1;Latency-Associated Peptide;TGF- β -1; Transforming Growth Factor Beta-1;TGFB;LAP;TGF- β 1
Protein Construction:	Ala279-Ser390
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01137
Molecular Weight:	12-18 KDa (reducing condition)
AA Sequence:	Ala279-Ser390

QC Testing

Biological Activity:	1. Measured by its ability to inhibit TGF-beta 1 activity on TF-1 human erythroleukemic cells. The ED50 for this effect is 137.37pg/ml. (Regularly tested) 2. Immobilized Biotinylated Human TGF-beta 1-Avi at 2 μ g/ml (100 μ l/well) can bind Human TGFBR2-Fc. The ED50 of Human TGFBR2-Fc is 9.47ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 10 EU/mg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 50 mM Glycine-HCl, 150 mM NaCl, pH2.5.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice. Solutions are shipping with dry ice.

Protein Background

Transforming Growth Factor β -1 (TGF β -1) is a secreted protein which belongs to the TGF- β family. TGF β -1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGF β -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 TGF β -1 peptide. TGF β -1 may also form heterodimers with other TGF β family members. It has been found that TGF β -1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.

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