

TGF beta 1 Protein, Mouse/Rat, Recombinant

General Information

Synonyms:	TGFB;TGFbeta;CEDLAP;TGF-beta-1;TGF-beta 1 protein;latency-associated peptide;TGF-b1;TGF-β1;transforming growth factor β-1;transforming growth factor beta-1;TGFβ;TGF-β-1;TGFB1
Protein Construction:	Ala279-Ser390
Species:	Mouse,Rat
Expression Host:	HEK293 Cells
Accession:	P04202
Molecular Weight:	13 KDa (reducing condition)
AA Sequence:	Ala279-Ser390

QC Testing

Biological Activity:	Measured by its ability to inhibit IL-4-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 5-25 pg/ml. (QC verified)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.001 ng/μg (0.01 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 4 mM HCl.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in 4mM HCl. The product concentration should not be less than 100 μg/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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein 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-β1, TGF-β2 and TGF-β3 signal via the same heteromeric receptor complex,

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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, haematopoietic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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