

TGF beta 3 Protein, Human, Recombinant (Avi), Biotinylated

General Information

Synonyms:	ARVD;TGF- β 3;TGFB3;TGF-beta3
Protein Construction:	Ala301--Ser412 (Tyr340Phe)
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P10600
Molecular Weight:	10-14 KDa (reducing condition)
AA Sequence:	Ala301--Ser412

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 0.37ng/ml. (Regularly tested) 2. Immobilized Human TGFBR2-Fc at 2 μ g/ml (100 μ l/well) can bind Biotinylated Human TGF-beta 3-Avi . The ED50 of Biotinylated Human TGF-beta 3-Avi is 2.05 ng/ml. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 4 mM HCL.

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.

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 (TGF β) is a multifunctional cytokine that regulates cell growth, differentiation, adhesion, migration and death dependent on cell type, developmental stage, or tissue conditions. There are three isoforms of TGF β (TGF β -1, -2 and -3). TGF-beta-3 is released from LAP by integrins: integrin-binding results in

distortion of the LAP chain and subsequent release of the active TGF-beta-3. TGF-beta 3 binds with high affinity to TGF-beta RII, a type II serine/threonine kinase receptor. This receptor then phosphorylates and activates type I serine/threonine kinase receptors, TGF-beta RI or ALK-1, to modulate transcription through Smad phosphorylation.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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