

TGF beta 2 Protein, Human, Recombinant (Avi), Biotinylated

General Information

Synonyms:	G-TSF;Cetermin;Transforming growth factor beta-2 proprotein;Transforming growth factor β -2;TGF- β 2;Glioblastoma-derived T-cell suppressor factor;TGFB2
Protein Construction:	Ala303--Ser414
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P61812
Molecular Weight:	10-14 KDa (reducing condition)
AA Sequence:	Ala303--Ser414

QC Testing

Biological Activity:	Immobilized Human TGFBR2-Fc at 2 μ g/ml (100 μ l/well) can bind Biotinylated Human TGF-beta 2-Avi . The ED50 of Biotinylated Human TGF-beta 2-Avi is 18.30 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 4mM HCl. 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). TGFB2 could be a potential biomarker for screening, surveillance and prognosis in GC, and that TGFB2 might drive EMT in GC through the NGF/TrKs pathway. Overexpression of TGFB2 may drive EMT through the neuriterelated signaling and affect TMB levels by regulating the DNA damage repair

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pathways and immune infiltrates. TGF- β 2 is an immune suppressor involved in the development of immune tolerance, and recombinant TGF- β 2 incubation is more potent than TGF- β 1 or TGF- β 3 incubation in suppressing macrophage inflammatory responses.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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