



Technical support: support@abbkine.com

Website: https://www.abbkine.com

Human TGF-β3 protein

Cat #: PRP1069 Size: 5µg/20µg/100µg/1mg

Product Information

	Product Name: Human TGF-β3 protein		
REF	Catalog Number: PRP1069	LOT	Lot Number: Refer to product label
	Purity: > 98% as determined by SDS-PAGE		
Å	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: TGF- β 3 (transforming growth factor- β 3) is a member of a TGF-beta superfamily subgroup that performs many cellular functions. TGF- β 3 has a role in embryogenesis and cell differentiation. TGF- β 3 also plays a critical role in palatogenesis, the wound healing process.TGF- β 3 is important in embryonic development, scarless repair of injury in the embryo, adult wound healing and tissue homeostasis. It has an important role in regulating cell migration, angiogenesis, epithelial-mesenchymal transition, apoptosis, modulation of immune function, extracellular matrix (ECM) production and the regulation of ECM remodelling; biological processes that are often required for tumour growth and maintenance.

<u>Sequence</u>: Amino acid sequence derived from Human TGF- β 3 protein (Ala301-Ser412) with was with 6×His tag at the C-terminus expressed.

Protein length: The recombinant Human TGF-β3 consists of 112 amino acids and predicts a molecular mass of 13.66 kDa.

Biological Activity: Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED₅₀ for this effect is <50 pg/mL. The specific activity of recombinant human TGF-β3 is > 2 x 10^7 IU/mg.

Endotoxin: < 0.1 EU per μ g of the protein as determined by the LAL method.

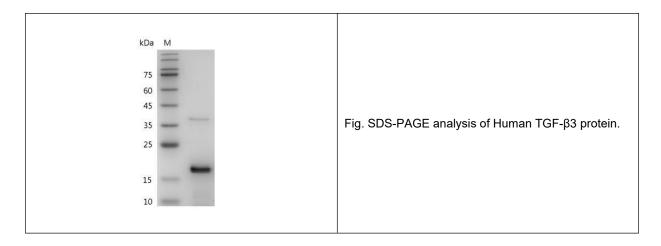
Formulation: The protein was lyophilized from 0.01% sarkosyl in 1X PBS, pH 8.0.

<u>Storage Instructions</u>: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein ((5% HSA, 10%FBS or 0.1%BSA)). Please prevent freeze-thaw cycles.

<u>Usage notes</u>: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Human



TGF- β 3 protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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