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TGFB3

Recombinant Human/Mouse TGF-beta 3, Animal Free (Lyophilized)

Catalog No.	CRH333A-AF	**Quantity:**	2 µg
	CRH333B-AF		10 µg
	CRH333C-AF		1 mg
	CRH333D-AF		100 µg

Alternate Names: TGF-beta 3, ARVD, ARVD1

Gene ID: 7043 human proprotein, 21809 mouse proprotein

UniProt ID: P10600 human proprotein, P17125 mouse proprotein

Description: The Transforming Growth Factors (TGFs) are multifunctional peptides that regulate growth and differentiation in a variety of cells. Recent data suggests that individual TGF-beta isoforms (TGF-beta1, -beta2 and –beta3) have overlapping, yet distinct biological actions and target cell specificities, both in developing and adult tissues. TGF-beta3 is a new isoform that is presumed to play an important role in wound repair and scarring. TGF-beta3 is also thought to be involved in osteoblast proliferation, chemotaxis, and collagen synthesis.
Human and mouse TGF-β3 have 100% sequence identity.
Made without animal-derived components in an animal-free facility.

Source: *E. coli*

Molecular Weight: 12.9/25.7 kDa (113/226 aa), dimer

Formulation: Lyophilized from a sterile-filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

Purity: ≥ 95% by reducing and nonreducing SDS PAGE

Endotoxin Level: ≤ 1 EU/µg by kinetic LAL analysis

Biological Activity: ED_{50} ≤1 ng/mL, determined by the dose-dependent inhibition of IL-4-induced proliferation from mouse HT-2 cells.

Specific Activity: ≥ 1 x 10^6 U/mg

Amino Acid Sequence: MALDTNYCFR NLEENCCVRP LYIDFRQDLG WKWVHEPKGY YANFCSGPCP YLRSADTTHS TVLGLYNTLN PEASASPCCV PQDLEPLTIL YYVGRTPKVE QLSNMVVKSC KCS

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipet the solution up and down the sides of the vial.
DO NOT VORTEX. Allow several minutes for reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution.

Storage & Stability: Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.
Avoid repeated freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

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