GEMINI BIO-PRODUCTS
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Product Usage

Product: **Recombinant Human TGF-β3**
Cat #: 300-192
Solution

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-β isoforms (TGF-β1, -β2 and –β3) have overlapping, yet distinct biological actions and target cell specificities, both in developing and adult tissues. TGF-β3 is a new isoform that is presumed to play an important role in wound repair and scarring. TGF-β3 is also thought to be involved in osteoblast proliferation, chemotaxis, and collagen synthesis.
MW	Non-glycosylated, disulfide-linked homodimer, containing two 112 amino acid chains, with a total molecular weight of 25.5 kDa.
Physical Appearance	Sterile filtered clear solution.
Source	*E. coli*
Formulation	Recombinant human TGF-β3 is provided in a solution (0.25 mg/mL) that contains 20% Ethanol and 0.12% acetic acid (AcOH).
Reconstitution	Not applicable.
Stability	Stable at 4°C.
Biological Activity	The activity is determined by the cell toxicity assay, using the WHO Standard 98/608 as a direct comparison, and is typically less than 0.05 ng/mL.
Endotoxin Level	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.
AA Sequence	ALDTNYCFRN LEENCCVRPL YIDFRQDLGW KWVHEPKGYY ANFCSGPCPY LRSADTTHST VLGLYNTLNP EASASPCCVP QDLEPLTILY YVGRTPKVEQ LSNMVVKSCK CS

Purity greater than 98% determined by Reducing and Non-reducing SDS-PAGE.

Protein content determined by Reducing and Non-reducing SDS-PAGE.

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!