GFM27AF Recombinant Mouse TGF-β3 (Animal-Free)

Description

Transforming Growth Factors (TGFs) are multifunctional peptides that regulate growth and differentiation in most cell types. The TGF-β family of proteins signal through serine/threonine kinase receptors. TGF-β isoforms (TGF-β1, -β 2, and -β 3) have overlapping, yet distinct biological actions in developing and adult tissues. TGF-β3 is an important factor in regulating cell adhesion and accelerating wound repair. TGF-β3 also functions during osteoblast proliferation, chemotaxis, and collagen synthesis.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	113 / 226 aa
Molecular Weight	12.9 / 25.7 kDa
Source	E. coli
Accession Number	P10600
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

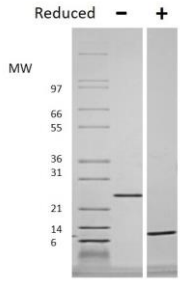
Specifications

Alternative Names	Transforming Growth Factor β 3, TGF β 3, TGF-β-3, TGFB3, TGFβ3
Biological Activity	Mouse TGF-β3 (Animal-Free) is fully biologically active when compared to standard. The activity is determined by the inhibition of IL-4 induced HT-2 cell proliferation and it is typically less than 1 ng/ml. This corresponds to an expected specific activity of 1.0 x 106 units/mg.
Endotoxin Level	≤1.00 EU/µg as measured by kinetic LAL
Formulation	In solution on 10 mM acetic acid and 20% ethanol at a concentration of 0.25 mg/ml
AA Sequence	MALDTNYCFR NLEENCCVRP LYIDFRQDLG WKWVHEPKGY YANFCSGPCP YLRSADTTHS TVLGLYNTLN PEASASPCCV PQDLEPLTIL YYVGRTPKVE QLSNMVVKSC KCS

Preparation and Storage

Reconstitution	Not applicable
Stability and Storage	12 months from date of receipt when stored at 4°C as supplied.

Data



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 µg of protein was loaded in each lane. Human TGF-β3 has a predicted Mw of 25.7 kDa (each monomer is 12.9 kDa).