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Animal-Free Recombinant Human TGF-β3 (E.coli derived)

Catalog # PBG10502

Specification

Animal-Free Recombinant Human TGF-β3 (E.coli derived) - Product Information

Animal-Free Recombinant Human TGF-β3 (E.coli derived) - Additional Information

Description
The three mammalian isoforms of TGF-β, TGF-β1, β2, β3, signal through the same receptor and elicit similar biological responses. They are multifunctional cytokines that regulate cell proliferation, growth, differentiation and motility as well as synthesis and deposition of the extracellular matrix. They are involved in various physiological processes including embryogenesis, tissue remodeling and wound healing. They are secreted predominantly as latent complexes which are stored at the cell surface and in the extracellular matrix. The release of biologically active TGF-β isoform from a latent complex involves proteolytic processing of the complex and /or induction of conformational changes by proteins such as thrombospondin-1. The physiological role of TGF-β3 is still unknown but its expression pattern suggests a role in the regulation of certain development processes. Recombinant human TGF-β3 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond.

BiologicalActivity
The ED₅₀ was determined by TGF-β3's ability to inhibit the M IL-4-dependent proliferation of M HT-2 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of ≥2 x 10⁷ units/mg.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Animal-Free Recombinant Human TGF-β3 (E.coli derived) is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human TGF-β3 (E.coli derived) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Animal-Free Recombinant Human TGF-β3 (E.coli derived) - Images