

Animal-Free Recombinant Human TGF- β 3 (E.coli derived)
Catalog # PBG10502**Specification**

Animal-Free Recombinant Human TGF- β 3 (E.coli derived) - Product Information**Animal-Free Recombinant Human TGF- β 3 (E.coli derived) - Additional Information****Description**

The three mammalian isoforms of TGF- β , TGF- β 1, β 2, β 3, 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- β 3 is still unknown but its expression pattern suggests a role in the regulation of certain development processes. Recombinant human TGF- β 3 is a 25.0 kDa protein composed of two identical 112 amino acid polypeptide chains linked by a single disulfide bond.

Biological Activity

The ED_{50} was determined by TGF- β 3'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 $\geq 2 \times 10^7$ units/mg.

Authenticity

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

Endotoxin

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

Protein Content

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

Storage

-20°C

Precautions

Animal-Free Recombinant Human TGF- β 3 (E.coli derived) is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human TGF- β 3 (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 Cytometry](#)
- [Cell Culture](#)

Animal-Free Recombinant Human TGF- β 3 (E.coli derived) - Images