

Animal-Free Recombinant Human TGF- α
Catalog # PBG10491**Specification**

Animal-Free Recombinant Human TGF- α - Product Information**Animal-Free Recombinant Human TGF- α - Additional Information****Description**

TGF- α is an EGF-related polypeptide growth factor that signals through the EGF receptor, and stimulates the proliferation of a wide range of epidermal and epithelial cells. It is produced by monocytes, keratinocytes, and various tumor cells. TGF- α induces transformation anchorage independence in cultured cells. Human, murine and rat TGF- α are cross-species reactive. Recombinant human TGF- α is a 50 amino acid polypeptide (5.5 kDa) which shares approximately 40% sequence homology with EGF, including 6 conserved cysteine residues, which form 3 intramolecular disulfide bonds.

BiologicalActivity

The **ED₅₀** as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is ≤ 0.2 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^6$ 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- α is for research use only and not for use in diagnostic or therapeutic procedures.

Animal-Free Recombinant Human TGF- α - 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- α - Images