
Product Data Sheet

Product Name: TGFA Human
Cat. No.: GP20942
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Transforming Growth Factor Alpha; Protransforming Growth Factor Alpha; TGF-Alpha; TGFA.		
Amino Acid Sequence	VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG ARCEHADLLA.		
Solubility	It is recommended to reconstitute the lyophilized TGFA in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2µm filtered solution in 0.1% TFA.		

Introduction

Transforming Growth Factor-Alpha (TGF-alpha) belongs to the EGF family of cytokines. TGFA soluble form is discharged from the membrane by proteolytic cleavage. Membrane-bound proTGF-alpha is biologically active and has a role in cell-cell adhesion or in the stimulation of adjacent cells. TGFA expression is common in transformed cells. Additionally, TGFA is expressed in normal tissues during embryogenesis and in adult cells/tissues, including the pituitary, keratinocytes, and macrophages.

Biological Activity

The ED50, as measured in a proliferation assay using mouse BALB/c 3T3 cells, is 0.395ng/ml.

Stability

Lyophilized TGFA although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TGFA should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a

Caution: Product has not been fully validated for medical applications. For research use only.

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carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

TGFA Human Recombinant (40-89) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 50 amino acids and having a molecular mass of 6kDa. The TGFA is purified by proprietary chromatographic techniques.

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