



Recombinant Human TGF-alpha

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	100-103
Size:	100 µg
Lot. No.:	According to product label

Sequence

VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG
ARCEHADLLA

Database References

Protein RefSeq:	NP_003227.1
Uniprot ID:	P01135
mRNA RefSeq:	NM_003236

Scientific Background

Gene-ID (NCBI):	7039
Synonyms:	TGFA; TFGA

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.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	50
MW:	5.5 kDa

Biological Activity: 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.



AVOID REPEATED FREEZE AND THAW CYCLES!