

Recombinant Human Transforming Growth Factor, Alpha

Cat. No. TGFA-5521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFA comprises the human TGF-alpha amino acid sequence plus a 14 amino acid N-terminal extension peptide.
Species	Human
Source	E.coli
Description	This product is a low cost, potent analog of human TGF-alpha. The recombinant growth factor can be used as a supplement for serum-free or low serum cell culture. It is also suitable for cultured fibroblasts, particularly from avian species used in the production of viral vaccines.
Form	Lyophilized white powder. Dried from 0.1 M acetic acid and stored under nitrogen at a slight vacuum.
Purity	> 90% (by N-terminal sequence analysis).
Molecular Weight	7113 Daltons-confirmed by Mass Spectrometry (minor N-terminal formylated form of 7142 Daltons).
N-terminal Sequence Analysis	18 residues > 96% single sequence.
Biological Activity	Cell proliferation in Balb/c 3T3 fibroblasts: ED50 <20 ng/ml (in the presence of 100 ng/ml Long TMR3IGF-I).

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 0.1 EU/μg
Reconstitution	Handling of GroPepLONG™EGF and LONG™TGF-α.
Storage	At least 2 years at 2 - 4°C (lyophilized).
Official Symbol	TGFA
Pathways	Direct p53 effectors; ErbB receptor signaling network; ErbB signaling pathway; FOXM1 transcription factor network; Glioma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Renal cell carcinoma
GENE INFORMATION	
Gene Name	TGFA transforming growth factor, alpha [Homo sapiens]
Synonyms	TGFA; transforming growth factor, alpha; TFGA; protransforming growth factor alpha; TGF-alpha; OTTHUMP00000160075; OTTHUMP00000203300; OTTHUMP00000203301; OTTHUMP00000203345; OTTHUMP00000203352; OTTHUMP00000225517; Protransforming growth factor alpha; Transforming growth factor alpha
Gene ID	7039
mRNA Refseq	NM_001099691
Protein Refseq	NP_001093161
MIM	190170
UniProt ID	P01135

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Chromosome Location	2p13
Function	MAP kinase kinase activity; epidermal growth factor receptor binding; glycoprotein binding; growth factor activity; protein binding; signal transducer activity
PDB rendering based on 1mox.	

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