

Recombinant Human Transforming Growth Factor, Alpha

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

SPECIFICATION

Product Overview	Recombinant Human TGFAcomprises the human TGF-alpha amino acid sequence plus a 14 amino acidN-terminal extension peptide.
Species	Human
Source	E.coli
Description	This product is alow cost, potent analog of human TGF-alpha. The recombinant growth factor canbe used as a supplement for serum-free or low serum cell culture. It is alsosuitable for cultured fibroblasts, particularly from avian species used inthe production of viral vaccines.
Form	Lyophilized whitepowder. Dried from 0.1 M acetic acid and stored under nitrogen at a slightvacuum.
Purity	> 90% (byN-terminal sequence analysis).
Molecular Weight	7113Daltons-confirmed by Mass Spectrometry (minor N-terminal formylated form of7142 Daltons).
N-terminal SequenceAnalysis	18 residues > 96% single sequence.
Biological Activity	Cell proliferationin Balb/c 3T3 fibroblasts: ED50 <20 ng/ml (in the presence of100 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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