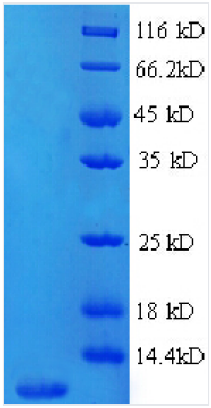
Protransforming Growth Factor Alpha (TGFA) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Protransforming growth factor alpha (TGFA), Recombinant Protein
Full Product Name	Recombinant Human Protransforming growth factor alpha protein
Product Gene Name	TGFA recombinant protein
Product Synonym Gene Name	TGF-alpha
Product Synonym Names	EGF-like TGF; ETGFTGF type 1
Sequence	VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG ARCEHADLLA
Host	E Coli
Form/Format	Liquid containing glycerol
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.
Molecular Weight	9.6kD
Sequence Positions	40-89
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
OMIM	190170
3D Structure	ModBase 3D Structure for P01135
Product Categories/Family for TGFA recombinant protein	Cardiovascular
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for TGFA recombinant protein	TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor/EGFR and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.
Product References and Citations for TGFA recombinant protein	Human transforming growth factor-alpha precursor structure and expression in E. coli.Derynck R., Roberts A.B., Winkler M.E., Chen E.Y., Goeddel D.V.Cell 38:287-297(1984)
Other Notes	Small volumes of TGFA recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TGFA purchase	MBS1265137 is a recombinant protein targeting TGFA. Also known as Recombinant Human Protransforming growth factor alpha protein. Host: E Coli.



SDS-Page of TGFA recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TGFA. It may not necessarily be applicable to this product.

NCBI GI #	153791414
NCBI GeneID	7039
NCBI Accession #	NP_001093161.1
UniProt Primary Accession #	P01135
UniProt Secondary Accession #	Q15577; Q53SK7; Q9BS56; Q9UEI3; Q9UKM1; Q9UKM2; Q9UKM3; A8K286
UniProt Related Accession #	P01135
GenBank Nucleotide #	NM_001099691.2
NCBI Official Full Name	protransforming growth factor alpha isoform 2 preproprotein
NCBI Official Synonym Full Names	transforming growth factor alpha
NCBI Official Symbol	TGFA
NCBI Official Synonym Symbols	TFGA
UniProt Protein Name	Protransforming growth factor alpha
UniProt Synonym Protein Names	Transforming growth factor alpha; TGF-alpha
Protein Family	Protransforming growth factor
UniProt Gene Name	TGFA
UniProt Synonym Gene Names	TGF-alpha; ETGF
UniProt Entry Name	TGFA_HUMAN
NCBI Protein Information	protransforming growth factor alpha
NCBI Summary for TGFA	This gene encodes a growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

UniProt Comments for TGFA	TGFalpha: TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor/EGFR and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar. Interacts with the PDZ domains of MAGI3, SDCBP and SNTA1. The interaction with SDCBP, is required for the targeting to the cell surface. In the endoplasmic reticulum, in its immature form (i.e. with a prosegment and lacking full N-glycosylation), interacts with CNIH. In the Golgi apparatus, may form a complex with CNIH and GORASP2. Interacts (via cytoplasmic C-terminal domain) with NKD2. Isoform 1, isoform 3 and isoform 4 are expressed in keratinocytes and tumor-derived cell lines. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Cell cycle regulation; Ligand, receptor tyrosine kinase; Membrane protein, integral; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 2p13 Cellular Component: basolateral plasma membrane; cell surface; cytoplasmic vesicle; endoplasmic reticulum membrane; ER-Golgi intermediate compartment membrane; extracellular space; integral to plasma membrane; perinuclear region of cytoplasm Molecular Function: epidermal growth factor receptor binding; growth factor activity; protein binding Biological Process: activation of MAPK activity; cell proliferation; COPII coating of Golgi vesicle; ER to Golgi vesicle-mediated transport; positive regulation of epidermal growth factor receptor activity; positive regulation of epithelial cell proliferation; positive regulation of mitosis
Research Articles on TGFA	**1.** EGFR and TGF-alpha can be used as predictive markers for activity, fibrosis, and carcinogenesis in chronic hepatitis C patients.
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