TGF Alpha Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	TGFA, Blocking Peptide
Full Product Name	TGF alpha Blocking Peptide
Product Gene Name	TGFA blocking peptide
Product Synonym Names	EGF like TGF; EGF-like TGF; ETGF; TFGA; TGF A; TGF type 1; TGF-alpha; Tgfa; TGFA_HUMAN; Transforming growth factor alpha; Transforming growth factor alpha precursor; Wa1; Waved 1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	TGF alpha peptide (MBS9625477) is used for blocking the activity of TGF alpha antibody (MBS9606760)
Molecular Weight	17,006 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (70674412..70781147, complement). Location: 2p13
OMIM	190170
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TGFA blocking peptide	Blocking/Control
Related Product Information for TGFA blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of TGFA blocking peptide 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	MBS9625477 is a blocking peptide targeting TGFA. Also known as TGF alpha Blocking Peptide.

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	EGF-like TGF; ETGF; TGF type 1
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; TGF-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: Ligand, receptor tyrosine kinase; Motility/polarity/chemotaxis; Membrane protein, integral; Cell cycle regulation Chromosomal Location of Human Ortholog: 2p13 Cellular Component: extracellular space; cell surface; integral to plasma membrane; perinuclear region of cytoplasm; basolateral plasma membrane; plasma membrane; cytoplasmic vesicle; nucleus Molecular Function: protein binding; growth factor activity; glycoprotein binding; epidermal growth factor receptor binding Biological Process: epidermal growth factor receptor signaling pathway; response to drug; cell proliferation; wound healing; positive regulation of mitosis; positive regulation of epidermal growth factor receptor activity; activation of MAPK activity; angiogenesis; positive regulation of epithelial cell proliferation; negative regulation of apoptosis
Research Articles on TGFA	**1.** TGFalpha, via multiple signaling pathways, regulates KGN cell proliferation and migration and may play an important role in the growth and metastasis of GCTs.
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