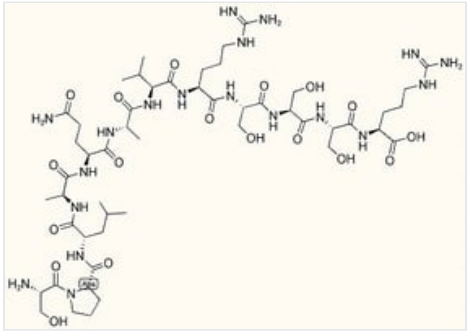
TNF-Alpha (Human) Peptide – (71-82) Synthetic Peptide, >95% Purity

PRODUCT OVERVIEW

Product Name	TNF-Alpha, Peptide
Full Product Name	TNF-Alpha (71-82) (Human)
Product Gene Name	TNF-Alpha peptide
Host	Synthetic
Form/Format	Lyophilized Powder
Purity/Purification	> 95%
Preparation and Storage	Shipped at 4 degree C. Store at -20 degree C for one year.
Molecular Weight	1258.41
OMIM	191160
Molecular Formula	C51H91N19O18
Chemical Structure	Ser-Pro-Leu-Ala-Gln-Ala-Val-Arg-Ser-Ser-Ser-Arg
Related Product Information for TNF-Alpha peptide	MBS8247097 is a peptide targeting TNF-Alpha. Also known as TNF-Alpha (71-82) (Human). Host: Synthetic. Peptide to TNF-Alpha (71-82) (Human)
Other Notes	Small volumes of TNF-Alpha 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.



Structure of TNF-Alpha peptide

ADDITIONAL DETAILS

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

NCBI GI #	37210
NCBI GeneID	7124
NCBI Accession #	CAA26669.1
UniProt Primary Accession #	P01375
UniProt Secondary Accession #	O43647; Q9P1Q2; Q9UIV3
UniProt Related Accession #	P01375

NCBI Official Full Name	TNF-alpha
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha
UniProt Protein Name	Tumor necrosis factor
UniProt Synonym Protein Names	Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a
Protein Family	Tumor necrosis factor alpha-induced protein
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_HUMAN
NCBI Protein Information	tumor necrosis factor
NCBI Summary for TNF-Alpha	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Jul 2008]

UniProt Comments for TNF-Alpha	TNF-a: Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Homotrimer. Interacts with SPPL2B. Belongs to the tumor necrosis factor family. Protein type: Apoptosis; Membrane protein, integral; Motility/polarity/chemotaxis; Cytokine Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: cell surface; external side of plasma membrane; extracellular region; extracellular space; integral to plasma membrane; lipid raft; phagocytic cup; plasma membrane; recycling endosome Molecular Function: cytokine activity; identical protein binding; protease binding; protein binding; tumor necrosis factor receptor binding Biological Process: activation of MAPK activity; activation of MAPKKK activity; activation of NF-kappaB transcription factor; caspase activation; chronic inflammatory response to antigenic stimulus; cortical actin cytoskeleton organization and biogenesis; embryonic gut development; I-kappaB kinase/NF-kappaB cascade; induction of apoptosis via death domain receptors; inflammatory response; leukocyte tethering or rolling; lipopolysaccharide-mediated signaling pathway; MAPKKK cascade; negative regulation of cytokine secretion during immune response; negative regulation of interleukin-6 production; negative regulation of lipid catabolic process; negative regulation of protein complex disassembly; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; negative regulation of viral genome replication; positive regulation of apoptosis; positive regulation of caspase activity; positive regulation of cell adhesion; positive regulation of chemokine biosynthetic process; positive regulation of chemokine production; positive regulation of cytokine production; positive regulation of cytokine secretion; positive regulation of fever; positive regulation of heterotypic cell-cell adhesion; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of interleukin-8 biosynthetic process; positive regulation of interleukin-8 production; positive regulation of JNK activity; positive regulation of MAP kinase activity; positive regulation of membrane protein ectodomain proteolysis; positive regulation of NF-kappaB import into nucleus; positive regulation of NFAT protein import into nucleus; positive regulation of nitric oxide biosynthetic process; positive regulation of osteoclast differentiation; positive regulation of peptidyl-serine phosphorylation; positive regulation of phagocytosis; positive regulation of programmed cell death; positive regulation of protein amino acid phosphorylation; positive regulation of protein complex assembly; positive regulation of protein complex disassembly; positive regulation of protein kinase activity; positive regulation of protein transport; positive regulation of smooth muscle cell proliferation; positive regulation of transcription factor activity; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-dependent; protein import into nucleus, translocation; protein kinase B signaling cascade; receptor biosynthetic process; regulation of I-kappaB kinase/NF-kappaB cascade; regulation of insulin secretion; response to glucocorticoid stimulus; response to salt stress; response to virus; sequestering of triacylglycerol; tumor necrosis factor-mediated signaling pathway Disease: Asthma, Susceptibility To; Malaria, Susceptibility To; Migraine With Or Without Aura, Susceptibility To, 1
Research Articles on TNF-Alpha	**1.** TNFalpha-308 A allele and A/A genotype were positively associated to erosive RA. G allele and GG genotype of the TNFalpha-308 were protectors.
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