C-Jun Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	c-Jun, Blocking Peptide
Full Product Name	c-Jun Blocking Peptide
Product Gene Name	JUN blocking peptide
Product Synonym Names	Activator protein 1; AP 1; AP1; cJun; Enhancer Binding Protein AP1; Jun Activation Domain Binding Protein; JUN; Jun oncogene; JUN protein; Jun proto oncogene; JUN_HUMAN; JUNC; Oncogene JUN; p39; Proto oncogene c jun; Proto oncogene cJun; Proto-oncogene c-jun; Transcription Factor AP 1; Transcription factor AP-1; Transcription Factor AP1; V jun avian sarcoma virus 17 oncogene homolog; V jun sarcoma virus 17 oncogene homolog (avian); V jun sarcoma virus 17 oncogene homolog; V-jun avian sarcoma virus 17 oncogene homolog; vJun Avian Sarcoma Virus 17 Oncogene Homolog
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	c-Jun peptide (MBS9617264) is used for blocking the activity of c-Jun antibody (MBS9601723)
Molecular Weight	35,676 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (59246463..59249785, complement). Location: 1p32-p31
OMIM	165160
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 JUN blocking peptide	Blocking/Control
Related Product Information for JUN 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 JUN 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 JUN purchase	MBS9617264 is a blocking peptide targeting JUN. Also known as c-Jun Blocking Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4758616
NCBI GeneID	3725

NCBI Accession #	NP_002219.1
UniProt Primary Accession #	P05412
UniProt Secondary Accession #	Q6FHM7; Q96G93
UniProt Related Accession #	P05412
GenBank Nucleotide #	NM_002228.3
NCBI Official Full Name	transcription factor AP-1
NCBI Official Synonym Full Names	jun proto-oncogene
NCBI Official Symbol	JUN
NCBI Official Synonym Symbols	AP1; AP-1; c-Jun
UniProt Protein Name	Transcription factor AP-1
UniProt Synonym Protein Names	Activator protein 1; AP1; Proto-oncogene c-Jun; V-jun avian sarcoma virus 17 oncogene homolog; p39
Protein Family	Transcription factor
UniProt Gene Name	JUN
UniProt Synonym Gene Names	AP1
UniProt Entry Name	JUN_HUMAN
NCBI Protein Information	transcription factor AP-1; p39; jun oncogene; activator protein 1; proto-oncogene c-Jun; enhancer-binding protein AP1; Jun activation domain binding protein; v-jun sarcoma virus 17 oncogene homolog; v-jun avian sarcoma virus 17 oncogene homolog
NCBI Summary for JUN	This gene is the putative transforming gene of avian sarcoma virus 17. It encodes a protein which is highly similar to the viral protein, and which interacts directly with specific target DNA sequences to regulate gene expression. This gene is intronless and is mapped to 1p32-p31, a chromosomal region involved in both translocations and deletions in human malignancies. [provided by RefSeq, Jul 2008]

UniProt Comments for JUN	Jun: the protooncogene c-Jun is a component of the transcription factor AP-1, which binds and activates transcription at TRE/AP-1 elements. The Jun Kinases (JNKs) binds to the N-terminal region of c-Jun and phosphorylate it in response to extracellular signals including growth factors, cytokines and stress, regulating its transcriptional activity. Protein type: Transcription factor; Oncoprotein Chromosomal Location of Human Ortholog: 1p32-p31 Cellular Component: nucleoplasm; nuclear chromosome; transcription factor complex; transcriptional repressor complex; nucleus; cytosol Molecular Function: RNA polymerase II transcription factor activity, enhancer binding; protein binding; enzyme binding; DNA binding; double-stranded DNA binding; transcription coactivator activity; transcription factor binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; positive regulation of monocyte differentiation; circadian rhythm; response to cAMP; regulation of cell cycle; positive regulation of transcription, DNA-dependent; positive regulation of smooth muscle cell proliferation; stress-activated MAPK cascade; microglial cell activation; response to lipopolysaccharide; SMAD protein nuclear translocation; toll-like receptor 3 signaling pathway; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; negative regulation of cell proliferation; positive regulation of fibroblast proliferation; response to radiation; regulation of transcription factor activity; positive regulation of neuron apoptosis; transforming growth factor beta receptor signaling pathway; negative regulation of protein amino acid autophosphorylation; negative regulation of neuron apoptosis; angiogenesis; toll-like receptor 4 signaling pathway; aging; response to drug; release of cytochrome c from mitochondria; monocyte differentiation; leading edge cell differentiation; MyD88-independent toll-like receptor signaling pathway; axon regeneration; learning; liver development; negative regulation of DNA binding; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; membrane depolarization; cellular response to potassium ion starvation; response to hydrogen peroxide; response to mechanical stimulus; response to cytokine stimulus; toll-like receptor signaling pathway; innate immune response; positive regulation of endothelial cell proliferation; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; negative regulation of transcription, DNA-dependent; positive regulation of DNA replication
Research Articles on JUN	**1.** Trans-acting factor binding sites and nuclear factors AP-1 and NFkappaB that are involved in the regulation of cell-specific CD44 expression, are reported.
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