STAT1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	STAT1, Blocking Peptide
Full Product Name	STAT1 Blocking Peptide
Product Gene Name	STAT1 blocking peptide
Product Synonym Names	CANDF7; DKFZp686B04100; ISGF 3; ISGF3; OTTHUMP00000163552; OTTHUMP00000165046; OTTHUMP00000165047; OTTHUMP00000205845; Signal transducer and activator of transcription 1; Signal transducer and activator of transcription 1, 91kDa; Signal transducer and activator of transcription 1-alpha/beta; Stat1; STAT1_HUMAN; STAT91; Transcription factor ISGF-3 components p91/p84
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	STAT1 peptide (MBS9617427) is used for blocking the activity of STAT1 antibody (MBS9601875)
Molecular Weight	87,335 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (191833762..191878976, complement). Location: 2q32.2
OMIM	209950
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 STAT1 blocking peptide	Blocking/Control
Related Product Information for STAT1 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 STAT1 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 STAT1 purchase	MBS9617427 is a blocking peptide targeting STAT1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT1. It may not necessarily be applicable to this product.

NCBI GI #	6274552
NCBI GeneID	6772
NCBI Accession #	NP_009330.1

UniProt Primary Accession #	P42224
UniProt Secondary Accession #	Q53S88; Q53XW4; Q68D00; Q9UDL5; A8K989; B2RCA0; D2KFR8; D3DPI7
UniProt Related Accession #	P42224
GenBank Nucleotide #	NM_007315.3
NCBI Official Full Name	signal transducer and activator of transcription 1-alpha/beta isoform alpha
NCBI Official Synonym Full Names	signal transducer and activator of transcription 1, 91kDa
NCBI Official Symbol	STAT1
NCBI Official Synonym Symbols	CANDF7; ISGF-3; STAT91
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Synonym Protein Names	Transcription factor ISGF-3 components p91/p84
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT1
UniProt Entry Name	STAT1_HUMAN
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta; transcription factor ISGF-3 components p91/p84; signal transducer and activator of transcription-1
NCBI Summary for STAT1	The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
UniProt Comments for STAT1	STAT1: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of certain receptor tyrosine kinases, GPCRs, and receptors for various interleukins and interferons. Forms homo- or heterodimers that translocate into the nucleus where they regulate transcription. Two alternatively spliced isoforms have been described. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 2q32.2 Cellular Component: nucleoplasm; axon; nuclear chromatin; cytoplasm; dendrite; nucleolus; cytosol; nucleus Molecular Function: identical protein binding; signal transducer activity; protein binding; protein homodimerization activity; enzyme binding; double-stranded DNA binding; transcription factor activity; tumor necrosis factor receptor binding; CCR5 chemokine receptor binding Biological Process: transcription from RNA polymerase II promoter; response to peptide hormone stimulus; response to cAMP; viral reproduction; blood circulation; apoptosis; positive regulation of transcription, DNA-dependent; positive regulation of smooth muscle cell proliferation; negative regulation of transcription from RNA polymerase II promoter; regulation of apoptosis; response to exogenous dsRNA; tumor necrosis factor-mediated signaling pathway; positive regulation of mesenchymal cell proliferation; negative regulation of viral protein levels in host cell; lipopolysaccharide-mediated signaling pathway; defense response to virus; response to nutrient; response to drug; cytokine and chemokine mediated signaling pathway; negative regulation of I-kappaB kinase/NF-kappaB cascade; JAK-STAT cascade; regulation of transcription from RNA polymerase II promoter; negative regulation of angiogenesis; response to hydrogen peroxide; cellular response to insulin stimulus; response to mechanical stimulus; response to cytokine stimulus; negative regulation of endothelial cell proliferation; endothelial cell migration; positive regulation of transcription from RNA polymerase II promoter Disease: Immunodeficiency 31a; Immunodeficiency 31b; Immunodeficiency 31c

Research Articles on STAT1	**1.** Data indicate that beta-arrestin1 is dispensable for STAT1 dephosphorylation and the termination of IFNgamma signaling.
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