Phospho-Src Blocking Peptide

PRODUCT OVERVIEW

Product Name	Phospho-Src, Blocking Peptide
Full Product Name	Phospho-Src Peptide
Product Gene Name	Src blocking peptide
Product Synonym Names	ASV; Avian sarcoma virus; Neuronal CSRC tyrosine specific protein kinase; p60 Src; SRC1; Tyrosine kinase pp60c src; v src avian sarcoma (Schmidt Ruppin A2) viral oncogene homolog antibody
Form/Format	Antigenic Blocking Peptide
Concentration	Quantity: 250 ug; Volume: 100 ul (lot specific)
Preparation and Storage	-20• degree C for long term storage
Antibody/Peptide Pairs	Phospho-Src peptide (MBS544339) is used for blocking the activity of Phospho-Src antibody (MBS544516)
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Molecular Weight	60,589 Da
OMIM	190090
Immunogen	C-epitope phosphorylated synthetic peptide taken within amino acid region 400-500 on human Src protein. Phosphorylated Tyr-416 residue.
Expression	Expressed ubiquitously. Platelets, neurons and osteoclasts express 5-fold to 200-fold higher levels than most other tissues.
Modification	Phosphorylated
Determinant	C-epitope
Molecular Function	ATP binding, ephrin receptor binding, heme binding, ion channel binding, enzyme binding, growth factor receptor binding, integrin binding, kinase activity
Subcellular Location	Cell membrane, mitochondrion inner membrane, nucleus, Cytoplasm (Note: Localizes to focal adhesion sites following integrin engagement. Localization to focal adhesion sites requires myristoylation and SH3 domain
Applications Tested/Suitable for Src blocking peptide	Immunocompetition, Immunodepletion
Application Notes for Src blocking peptide	Western Blot: 1:500
Related Product Information for Src blocking peptide	Antigenic Blocking Peptide Phosphorylated Proto-oncogene tyrosine-protein kinase Src Antibody C-epitope Participates in signaling pathways that control a diverse spectrum of biological activities including gene transcription, immune response, cell adhesion, cell cycle progression, apoptosis migration, and transformation
Other Notes	Small volumes of Src 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 Src purchase	MBS544339 is a blocking peptide targeting Src. Also known as Phospho-Src Peptide.

ADDITIONAL DETAILS

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

NCBI GI #	4885609

NCBI GeneID	6714
NCBI Accession #	NP_005408.1
UniProt Primary Accession #	P12931
UniProt Secondary Accession #	Q76P87; Q86VB9; Q9H5A8; E1P5V4
UniProt Related Accession #	P12931
GenBank Nucleotide #	NM_005417.4
NCBI Official Full Name	proto-oncogene tyrosine-protein kinase Src
NCBI Official Synonym Full Names	SRC proto-oncogene, non-receptor tyrosine kinase
NCBI Official Symbol	SRC
NCBI Official Synonym Symbols	ASV; SRC1; THC6; c-SRC; p60-Src
UniProt Protein Name	Proto-oncogene tyrosine-protein kinase Src
UniProt Synonym Protein Names	Proto-oncogene c-Src; pp60c-src; p60-Src
Protein Family	Neuronal proto-oncogene tyrosine-protein kinase
UniProt Gene Name	SRC
UniProt Synonym Gene Names	SRC1; p60-Src
UniProt Entry Name	SRC_HUMAN
NCBI Protein Information	proto-oncogene tyrosine-protein kinase Src
NCBI Summary for Src	This gene is highly similar to the v-src gene of Rous sarcoma virus. This proto-oncogene may play a role in the regulation of embryonic development and cell growth. The protein encoded by this gene is a tyrosine-protein kinase whose activity can be inhibited by phosphorylation by c-SRC kinase. Mutations in this gene could be involved in the malignant progression of colon cancer. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for Src	Src: proto-oncogenic cytoplasmic tyrosine kinase of the SRC family. Highly expressed in certain fully differentiated cells such as neurons, platelets and macrophages. Phosphorylation of an activation loop tyrosine activates the enzyme; phosphorylation of a tyrosine in the C-terminus by Csk inhibits the enzyme. Two alternatively spliced isoforms have been described. Protein type: Oncoprotein; Kinase, protein; EC 2.7.10.2; Protein kinase, tyrosine (non-receptor); Protein kinase, TK; TK group; Src family Chromosomal Location of Human Ortholog: 20q12-q13 Cellular Component: actin filament; caveola; cytoplasm; cytosol; extrinsic to internal side of plasma membrane; late endosome; lysosome; mitochondrial inner membrane; mitochondrion; neuron projection; nucleus; perinuclear region of cytoplasm; plasma membrane; postsynaptic density Molecular Function: ATP binding; enzyme binding; ephrin receptor binding; estrogen receptor binding; heme binding; hormone receptor binding; insulin receptor binding; integrin binding; kinase activity; kinase binding; non-membrane spanning protein tyrosine kinase activity; phosphoprotein binding; protein binding; protein C-terminus binding; protein kinase activity; protein kinase C binding; protein-tyrosine kinase activity; receptor binding; SH2 domain binding; SH3/SH2 adaptor activity Biological Process: activation of protein kinase B; bone resorption; cell cycle; cell proliferation; cell-cell adhesion; cellular response to insulin stimulus; central nervous system development; ephrin receptor signaling pathway; epidermal growth factor receptor signaling pathway; estrogen receptor signaling pathway; forebrain development; innate immune response; integrin-mediated signaling pathway; leukocyte migration; negative regulation of apoptosis; negative regulation of caspase activity; negative regulation of focal adhesion formation; negative regulation of mitochondrial depolarization; negative regulation of protein homooligomerization; negative regulation of telomerase activity; negative regulation of telomere maintenance via telomerase; negative regulation of transcription, DNA-dependent; nerve growth factor receptor signaling pathway; oogenesis; peptidyl-serine phosphorylation; peptidyl-tyrosine phosphorylation; platelet activation; platelet-derived growth factor receptor signaling pathway; positive regulation of apoptosis; positive regulation of cyclin-dependent protein kinase activity; positive regulation of cytokine secretion; positive regulation of insulin receptor signaling pathway; positive regulation of integrin activation; positive regulation of MAP kinase activity; positive regulation of peptidyl-tyrosine phosphorylation; positive regulation of phosphoinositide 3-kinase activity; positive regulation of protein amino acid autophosphorylation; positive regulation of protein kinase B signaling cascade; positive regulation of smooth muscle cell migration; positive regulation of transcription, DNA-dependent; progesterone receptor signaling pathway; protein amino acid autophosphorylation; protein destabilization; regulation of bone resorption; regulation of cell cycle; regulation of cell proliferation; regulation of cell-cell adhesion; regulation of estrogen receptor signaling pathway; regulation of protein binding; regulation of vascular permeability; response to acidity; response to drug; response to electrical stimulus; response to hydrogen peroxide; response to mechanical stimulus; response to mineralocorticoid stimulus; response to nutrient levels; response to virus; signal complex assembly; signal transduction; stimulatory C-type lectin receptor signaling pathway; stress fiber formation; T cell costimulation; transcytosis; transforming growth factor beta receptor signaling pathway; uterus development; vascular endothelial growth factor receptor signaling pathway; viral reproduction
Research Articles on Src	**1.** Thus, Src inhibitors emerge as a new class of drugs able to promote frataxin accumulation, suggesting their possible use as therapeutics in Friedreich's Ataxia
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