SREBP1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	SREBP1, Blocking Peptide
Full Product Name	SREBP1 Blocking Peptide
Product Gene Name	SREBP1 blocking peptide
Product Synonym Names	ADD 1; bHLHd1; Class D basic helix-loop-helix protein 1; D630008H06; Processed sterol regulatory element-binding protein 1; SRBP1_HUMAN; SREBF 1; SREBF1; SREBP 1; SREBP 1c; SREBP-1; SREBP1; Sterol regulatory element binding protein 1; Sterol Regulatory Element Binding Transcription Factor 1/Protein 1; Sterol regulatory element binding transcription factor 1; Sterol regulatory element-binding transcription factor 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	SREBP1 peptide (MBS9616718) is used for blocking the activity of SREBP1 antibody (MBS9613436)
Molecular Weight	121,675 Da
Chromosome Location	Chromosome: 17; NC_000017.10 (17714663..17740325, complement). Location: 17p11.2
OMIM	184756
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 SREBP1 blocking peptide	Blocking/Control
Related Product Information for SREBP1 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 SREBP1 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 SREBP1 purchase	MBS9616718 is a blocking peptide targeting SREBP1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SREBP1. It may not necessarily be applicable to this product.

NCBI GI #	52630419
NCBI GeneID	6720
NCBI Accession #	NP_001005291.1

UniProt Primary Accession #	P36956
UniProt Secondary Accession #	Q16062; Q59F52; Q6P4R7; Q6PFW7; Q6PJ36; Q8TAK9; D3DXC4
UniProt Related Accession #	P36956
GenBank Nucleotide #	NM_001005291.2
NCBI Official Full Name	sterol regulatory element-binding protein 1 isoform a
NCBI Official Synonym Full Names	sterol regulatory element binding transcription factor 1
NCBI Official Symbol	SREBF1
NCBI Official Synonym Symbols	SREBP1; bHLHd1; SREBP-1c
UniProt Protein Name	Sterol regulatory element-binding protein 1
UniProt Synonym Protein Names	Class D basic helix-loop-helix protein 1; bHLHd1; Sterol regulatory element-binding transcription factor 1
UniProt Gene Name	SREBF1
UniProt Synonym Gene Names	BHLHD1; SREBP1; SREBP-1; bHLHd1
UniProt Entry Name	SRBP1_HUMAN
NCBI Protein Information	sterol regulatory element-binding protein 1; SREBP-1; class D basic helix-loop-helix protein 1
NCBI Summary for SREBP1	This gene encodes a transcription factor that binds to the sterol regulatory element-1 (SRE1), which is a decamer flanking the low density lipoprotein receptor gene and some genes involved in sterol biosynthesis. The protein is synthesized as a precursor that is attached to the nuclear membrane and endoplasmic reticulum. Following cleavage, the mature protein translocates to the nucleus and activates transcription by binding to the SRE1. Sterols inhibit the cleavage of the precursor, and the mature nuclear form is rapidly catabolized, thereby reducing transcription. The protein is a member of the basic helix-loop-helix-leucine zipper (bHLH-Zip) transcription factor family. This gene is located within the Smith-Magenis syndrome region on chromosome 17. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SREBP1	SREBP-1: Transcriptional activator required for lipid homeostasis. Regulates transcription of the LDL receptor gene as well as the fatty acid and to a lesser degree the cholesterol synthesis pathway. Binds to the sterol regulatory element 1 (SRE-1) (5'-ATCACCCCAC-3'). Has dual sequence specificity binding to both an E-box motif (5'-ATCACGTGA-3') and to SRE-1 (5'-ATCACCCCAC-3'). Forms a tight complex with SCAP in the ER membrane. Efficient DNA binding of the soluble transcription factor fragment requires dimerization with another bHLH protein. Interacts with LMNA. Expressed in a wide variety of tissues, most abundant in liver and adrenal gland. In fetal tissues lung and liver shows highest expression. Isoform SREBP-1C predominates in liver, adrenal gland and ovary, whereas isoform SREBP-1A predominates in hepatoma cell lines. Isoform SREBP-1A and isoform SREBP-1C are found in kidney, brain, white fat, and muscle. Belongs to the SREBP family. 4 isoforms of the human protein are produced by alternative splicing. Protein type: DNA-binding; Transcription factor; Membrane protein, multi-pass; Membrane protein, integral Chromosomal Location of Human Ortholog: 17p11.2 Cellular Component: Golgi membrane; nucleoplasm; endoplasmic reticulum membrane; protein complex; endoplasmic reticulum; cytoplasm; integral to membrane; nuclear envelope; nucleus; cytosol Molecular Function: protein dimerization activity; protein binding; sterol response element binding; DNA binding; sequence-specific DNA binding; protein complex binding; chromatin binding; transcription factor activity; protein kinase binding Biological Process: response to food; response to drug; circadian rhythm; cholesterol metabolic process; response to glucagon stimulus; response to retinoic acid; response to cAMP; transcription, DNA-dependent; lipid biosynthetic process; positive regulation of cholesterol biosynthetic process; cellular lipid metabolic process; negative regulation of transcription from RNA polymerase II promoter; cellular response to starvation; negative regulation of insulin secretion; regulation of transcription from RNA polymerase II promoter; positive regulation of histone deacetylation; chemical signal regulation of heart rate; regulation of fatty acid metabolic process; response to glucose stimulus; insulin receptor signaling pathway; positive regulation of transcription from RNA polymerase II promoter; lipid metabolic process; response to progesterone stimulus; lung development; aging

Research Articles on SREBP1	**1.** SREBP-1 regulate muscle protein synthesis through the downregulation of the expression of MYOD1, MYOG and MEF2C factors.
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