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

PRODUCT OVERVIEW

Product Name	Synapsin I (SYN1), Blocking Peptide
Full Product Name	Synapsin I Blocking Peptide
Product Gene Name	SYN1 blocking peptide
Product Synonym Names	Brain protein 4.1; SYN 1; SYN 1a; SYN 1b; SYN I; SYN1; SYN1_HUMAN; SYN1a; SYN1b; Synapsin 1; Synapsin I; Synapsin-1; Synapsin1; SynapsinI; SYNI
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	Synapsin I peptide (MBS9615349) is used for blocking the activity of Synapsin I antibody (MBS9612565)
Molecular Weight	74,111 Da
Chromosome Location	Chromosome: X; NC_000023.10 (47431300..47479256, complement). Location: Xp11.23
OMIM	300491
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 SYN1 blocking peptide	Blocking/Control
Related Product Information for SYN1 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 SYN1 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 SYN1 purchase	MBS9615349 is a blocking peptide targeting SYN1. Also known as Synapsin I Blocking Peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYN1. It may not necessarily be applicable to this product.

NCBI GI #	19924099
NCBI GeneID	6853
NCBI Accession #	NP_008881.2
UniProt Primary Accession #	P17600
UniProt Secondary Accession #	O75825; Q5H9A9; B1AJQ1

UniProt Related Accession #	P17600
GenBank Nucleotide #	NM_006950.3
NCBI Official Full Name	synapsin-1 isoform Ia
NCBI Official Synonym Full Names	synapsin I
NCBI Official Symbol	SYN1
NCBI Official Synonym Symbols	SYNI; SYN1a; SYN1b
UniProt Protein Name	Synapsin-1
UniProt Synonym Protein Names	Brain protein 4.1; Synapsin I
Protein Family	Sister chromatid cohesion 1 protein
UniProt Gene Name	SYN1
UniProt Entry Name	SYN1_HUMAN
NCBI Protein Information	synapsin-1; brain protein 4.1
NCBI Summary for SYN1	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. This member of the synapsin family plays a role in regulation of axonogenesis and synaptogenesis. The protein encoded serves as a substrate for several different protein kinases and phosphorylation may function in the regulation of this protein in the nerve terminal. Mutations in this gene may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
UniProt Comments for SYN1	SYN1: neuronal phosphoprotein which associates with the cytoplasmic surface of synaptic vesicles and binds to the cytoskeleton. May function in the regulation of neurotransmitter release and of axonogenesis and synaptogenesis. Mutations may be associated with X-linked disorders with primary neuronal degeneration such as Rett syndrome. Two differentially spiced isoforms have been reported. Protein type: Vesicle Chromosomal Location of Human Ortholog: Xp11.23 Cellular Component: Golgi apparatus; synaptic vesicle; dendrite; cytosol; cell junction Molecular Function: protein binding; transporter activity; actin binding; protein kinase binding; calcium-dependent protein binding; catalytic activity; ATP binding Biological Process: synaptic transmission; metabolic process; neurotransmitter secretion; regulation of neurotransmitter secretion Disease: Epilepsy, X-linked, With Variable Learning Disabilities And Behavior Disorders
Research Articles on SYN1	**1.** A conserved region of human and mouse SYN1 promoters contains cis-sites for the transcriptional activator Sp1 in close proximity to REST binding motifs.
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