Synapsin-1 (SYN1) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Synapsin-1 (SYN1), Recombinant Protein
Full Product Name	Recombinant Human Synapsin-1
Product Gene Name	SYN1 recombinant protein
Product Synonym Names	Brain protein 4.1; Synapsin I
Host	Yeast
Species Reactivity	Human
Form/Format	20mM Tris-HCl based buffer, pH8.0
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C. Repeated freezing and thawing is not recommended. Store working aliquots at 4 degree C for up to one week.
Molecular Weight	36.6kD
Sequence Positions	Partial, 113-420aa
3D Structure	ModBase 3D Structure for P17600
Tag Info	His-tag
Related Product Information for SYN1 recombinant protein	Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level.
Other Notes	Small volumes of SYN1 recombinant protein 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	MBS9422512 is a recombinant protein targeting SYN1. Also known as Recombinant Human Synapsin-1. Reactive in Human. Host: Yeast.

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
NCBI Protein Information	synapsin-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: Xp11.3-p11.23 Cellular Component: synaptic vesicle Molecular Function: ATP binding; protein binding; protein kinase binding; transporter activity Biological Process: regulation of neurotransmitter secretion; synaptic transmission Disease: Epilepsy, X-linked, With Variable Learning Disabilities And Behavior Disorders
Research Articles on SYN1	**1.** These findings contribute to previous work showing dysregulation of Synapsins, particularly SYN2, in mood disorders and improve our understanding of the regulatory mechanisms that precipitate these changes likely leading to the BD or MDD phenotype.
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