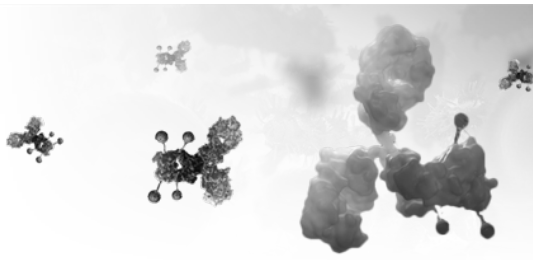

Rat SYN1 peptide (DAG-P1947)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the synapsin family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	SYN1 synapsin I [Homo sapiens (human)]
Official Symbol	SYN1
Synonyms	SYN1; synapsin I; SYNI; SYN1a; SYN1b; synapsin-1; brain protein 4.1;

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Entrez Gene ID	6853
mRNA Refseq	NM_006950.3
Protein Refseq	NP_008881.2
UniProt ID	P17600
Chromosome Location	Xp11.23
Pathway	BDNF signaling pathway, organism-specific biosystem; Dopamine Neurotransmitter Release Cycle, organism-specific biosystem; Monoamine Transport, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Release Cycle, organism-specific biosystem; Serotonin Neurotransmitter Release Cycle, organism-specific biosystem; Synaptic Vesicle Pathway, organism-specific biosystem; Transmission across Chemical Synapses, organism-specific biosystem;
Function	ATP binding; actin binding; calcium-dependent protein binding; catalytic activity; protein binding; transporter activity;

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