Recombinant Human SYN2

Cat. No. SYN2-31489TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Synapsin II with N terminal proprietary tag, 36.74kDa.
Species	Human
Source	Wheat Germ
ProteinLength	101 amino acids
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 encodes a neuron-specific phosphoprotein that selectively binds to small synaptic vesicles in the presynaptic nerve terminal. The TIMP4 gene is located within an intron of this gene and is transcribed in the opposite direction. Mutations in this gene may be associated with abnormal presynaptic function and schizophrenia. Alternative splicing of this gene results in two transcripts.
Molecular Weight	36.740kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	AMSDRYKLWVDTCSEMFGGLDICAVKAVHGKDGKDYIFEV MDCSMPLIGEHQVED RQLITELVISKMNQLLSRTPALSPQ RPLTTQQPQSGTLKDPDSSKT

GENE INFORMATION

Gene Name	SYN2 synapsin II [Homo sapiens]
Official Symbol	SYN2
Synonyms	SYN2; synapsin II; synapsin-2; SYNII; SYNIIa; SYNIIb;
Gene ID	6854
mRNA Refseq	NM_133625
Protein Refseq	NP_598328
MIM	600755
Uniprot ID	Q92777
Chromosome Location	3
Pathway	Dopamine Neurotransmitter Release Cycle, organism-specific biosystem; Neuronal System, organism-specific biosystem; Neurotransmitter Release Cycle, organism-specific biosystem; Serotonin Neurotransmitter Release Cycle, organism-specific

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	biosystem; Transmission across Chemical Synapses, organism-specific biosystem;
Function	ATP binding; ligase activity;

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