

Recombinant Human SYN1, MYC/DDK-tagged

Cat. No. SYN1-16H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human SYN1, transcript variant 1a, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.

Species Human

Source HEK293

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.

Molecular Mass 73.9 kDa

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Concentration >50 ug/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

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

Gene ID 6853

mRNA Refseq NM_006950

Protein Refseq NP_008881

MIM 313440

UniProt ID P17600

Chromosome Location Xp11.23

Pathway BDNF signaling pathway; Monoamine Transport; Neurotransmitter Release Cycle

Function ATP binding; calcium-dependent protein binding; catalytic activity

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