

Recombinant Human SYN1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. SYN1-4848H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SYN1 MS Standard C13 and N15-labeled recombinant protein (NP_008881) with a C-terminal MYC/DDK tag, 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
AA Sequence	MNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPGAHSPGATPGPGTATAERSS GVAPAASPAAPSPGSSGGGGFFSSLSNAVKQTAAAAATFSEQVGGGSGGAGRG

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GAASRVLLVIDEPHTDWAKYFKGKKIHGEIDIKVEQAEFSDLNLVAHANGGFSVDME
 VLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPSVNSLHSVYNFC
 DKPWVFAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMG
 KVKVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGN
 WKTNTGSAMLEQIAMSDRYKLWVDTCEIFGGLDICAVEALHGKDGRDHIIIEVVGSS
 MPLIGDHQDEDKQLIVELVVKMAQALPRQRQDASPRGRSHGQTPSPGALPLGR
 QTSQQPAGPPAQQRPPPQGGPPQPGPGPQRQGPPLQQRPPPQGGQHLSGLGPP
 AGSPLPQRLPSPTSAPQQPASQAAPPTQGQGRQSRPVAGGPGAPPAARPPASPS
 QRQAGPPQATRQTSVSGPAPPKASGAPPGGQQRQGPQKPPGPAGPTRQASQA
 GPVPRTPPTTQQPRPSGPGPAGRPKPQLAQKPSQDVPPPATAAAGGPPHPQLNK
 SSQLTNAFNLPEPAPPRPSLSQDEVKAETIRSLRKSFASLFSDTRTRPLEQKLISEED
 LAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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Gene ID	6853
mRNA Refseq	NM_006950
Protein Refseq	NP_008881
MIM	313440
UniProt ID	P17600
SDS-PAGE	