

Product datasheet for PH321273

Synapsin I (SYN1) (NM_006950) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	SYN1 MS Standard C13 and N15-labeled recombinant protein (NP_008881)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221273
Predicted MW:	73.9 kDa
Protein Sequence:	>RC221273 representing NM_006950 Red=Cloning site Green=Tags(s)
	MNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPGAHSPGATPGPGTATAERSSGVAPAASPAAPSPGS SGGGGFFSSL SNAVKQTAAAAATFSEQVGGGSGAGRGGAASRVLLVIDEPHTDWAKYFKGKKIHGEID IKVEQAEFSDLNLVAHANGGFSVDMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI PSVNSLHSVYVNFCDKPWFVAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKV KVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWK TNTGSAMLEQIAMS DRYKLVWDT CSEIFGGLDICAVEALHGKDGRDHIIEVVGSSMPLIGDHQDEKQLIVELVVKMAQALPR QRQRDASPRGSGHGQTPSPGALPLGRQTSQQPAGPPAQQRPPQGGPPQPGPGPQRQGPPLQQRPPQGG QHL SGLGPPAGSPLPQRLPSPTSAPQQPASQAAPPTQGGQRQSRPVAGGPGAPPAARPPASPSQRQAGP PQATRQTSVSGPAPPKASGAPPGQQRQGPQKPPGPAGPTRQASQAGPVPRTPPTTQQPRPSGPGPAG RPKPQLAQKPSQDVPPPATAAAGGPPHPQLNKSQSLTNAFNLEPAPPRLSLSQDEVKAETIRSLRKSFA SLFSD
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_008881</u>

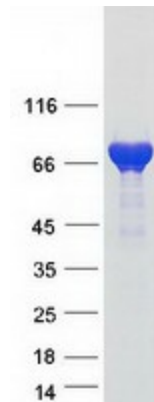


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RefSeq Size:	2248
RefSeq ORF:	2115
Synonyms:	EPILX; MRX50; SYN1a; SYN1b; SYN1
Locus ID:	6853
UniProt ID:	P17600
Cytogenetics:	Xp11.3-p11.23

Summary: 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]

Product images:



Coomassie blue staining of purified SYN1 protein (Cat# [TP321273]). The protein was produced from HEK293T cells transfected with SYN1 cDNA clone (Cat# [RC221273]) using MegaTran 2.0 (Cat# [TT210002]).