

## Product datasheet for **TP321273M**

### Synapsin I (SYN1) (NM\_006950) Human Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human synapsin I (SYN1), transcript variant Ia, 100 µg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA** >RC221273 representing NM\_006950

**Clone or AA** Red=Cloning site Green=Tags(s)

**Sequence:**

MNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPGAHSPGATPGPGTATAERSSGVAPAASPAAPSPGS  
SGGGGFFSSLSNAVKQTAAAAAATFSEQVGGGSGGAGRGGGAASRVLLVIDEPHTDWAKYFKGKKIHGEID  
IKVEQAEFSDLNLVAHANGGFSVDMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGI  
PSVNSLHSVNFCDKPWFVAQMVR LHKLGTEEFPLIDQTFYPNHKEMLSSTYPVVKMGHAHSGMGKV  
KVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKNTG SAMLEQIAMS  
DRYKLWVDTCEIFGGLDICAVEALHGKDGRDHIIIEVVGSSMPLIGDHQDEDKQLLIVLVNKMAQALPR  
QRQRDASPRGRSHGQTPSPGALPLGRQTSQQPAGPPAQQRPPPQGGPPQPGPGPQRQGPPLQQRPPPQGG  
QHLSGLGPPAGSPLPQLPSPTSAPQQPASQAAPPTQGQGRQSRPVAGGPGAPPAARPPASPSQRQAGP  
PQATRQTSVSGPAPPKASGAPPGGQQRQGGPPQKPPGPAGPTRQASQAGVPVPTGPPTTQQPRPSGPGPAG  
RPPKQLAQKPSQDVPPPATAAAGGPPHPQLNKSQSLTNAFNLPPEPAPPRPSSLSQDEVKAETIRSLRKSFA  
SLFSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Tag:** C-Myc/DDK

**Predicted MW:** 73.9 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

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

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

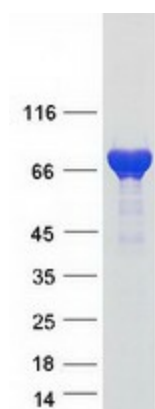
**Storage:** Store at -80°C.



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<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u>NP_008881</u>
<b>Locus ID:</b>	6853
<b>UniProt ID:</b>	<u>P17600</u>
<b>RefSeq Size:</b>	2248
<b>Cytogenetics:</b>	Xp11.3-p11.23
<b>RefSeq ORF:</b>	2115
<b>Synonyms:</b>	EPILX; MRX50; SYN1a; SYN1b; SYN1
<b>Summary:</b>	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]).