

## Product datasheet for TP327252

### Synaptotagmin 1 (SYT1) (NM\_001135806) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human synaptotagmin I (SYT1), transcript variant 3, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC227252 representing NM_001135806 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	MVSESHHEALAAPPVTTVATVLP SNATEPASPGEKEDAFSKLKEKFMNELHKIPLPPWALIAIAIVAVL LVLTCFCICKKCLFKKKNNKKGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEE EKLGLQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVRKTLNPFVNEQ FTFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVP MNTVDFGHVTEEWRDLQSAEKEEQEKLGDICFS LRYVPTAGKLTVVILEAKNLKMDVGGLSDPYVKIHLMQNGKRLKKKTTIKNTLNPPYNESFSFEVPP EQIQKVQVWTVLDYDKIGKNDAIGKVFVGYNSTGAELRHWSM LANPRRPIAQWHTLQVEEVDAMLAV KK
	<b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	47.4 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Bioactivity:</b>	MS digestion standard (PMID: <a href="#">27716408</a> )
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<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.



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RefSeq: [NP\\_001129278](#)

Locus ID: 6857

UniProt ID: [P21579](#), [A0A024RBE9](#)

Cytogenetics: 12q21.2

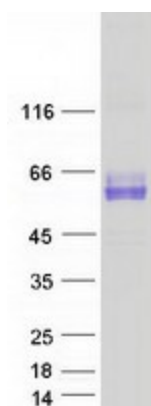
RefSeq ORF: 1266

Synonyms: BAGOS; P65; SVP65; SYT

**Summary:** The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010]

**Protein Families:** Secreted Protein, Transmembrane

### Product images:



Coomassie blue staining of purified SYT1 protein (Cat# TP327252). The protein was produced from HEK293T cells transfected with SYT1 cDNA clone (Cat# [RC227252]) using MegaTran 2.0 (Cat# [TT210002]).