

## Product datasheet for PH327105

### Synaptotagmin 1 (SYT1) (NM\_001135805) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	SYT1 MS Standard C13 and N15-labeled recombinant protein (NP_001129277)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC227105
Predicted MW:	47.4 kDa
Protein Sequence:	>RC227105 representing NM_001135805 Red=Cloning site Green=Tags(s)

MVSESHHEALAAPPVTTVATVLP SNATEPASPGEKEDAFSKLKEKFMNELHKIPLPPWALIAIAIVAVL  
LVL TCCFCICKKCLFKKKKNGGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEE  
EKLGLQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKFETKVHRKTLNPFVNEQ  
FTFKVPYSELGGKTLVMAYYDFDRFSKHDIIIGEFKVPMTVDVFGHVTEEWRDLQSAEKEEQEKLGDICFS  
LRYVPTAGKLTVVILEAKNLKMDVGGLSDPYVKIHLMQNGKRLKKKTTIKKNTLNPYYNESFSFEVPP  
EQIQKVQVVVTVLDYDKIGKNDIIGKVFVGYNSTGAELRHWSMDLANPRRPIAQWHTLQVEEVDAMLAV  
KK

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<a href="#">NP_001129277</a>
RefSeq ORF:	1266
Synonyms:	BAGOS; P65; SVP65; SYT
Locus ID:	6857



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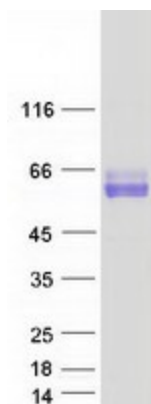
UniProt ID: [P21579](#), [A0A024RBE9](#)

Cytogenetics: 12q21.2

Summary: The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca<sup>2+</sup> 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# [TP327105]). The protein was produced from HEK293T cells transfected with SYT1 cDNA clone (Cat# [RC227105]) using MegaTran 2.0 (Cat# [TT210002]).