

## Recombinant Human SYT1, His-tagged


Cat. No. SYT1-31491TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 136-382 of Human Synaptotagmin 1 with C terminal His tag; 256 amino acids with tag, Predicted MWt 29.5 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	247 amino acids
<b>Description</b>	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.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	29.500kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 2mM DTT, 100mM Sodium chloride, pH 8.0

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<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MEPKEEEKLGKQLQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKK KKFETKVHRKTLNPFVNEQFTFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVP NTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYVPTAGKLTVVILEAKNLKMDV GGLSDPYVKIHLMQNGKRLKKKKTIKNTLNPYYNESFSFEVPPFEQIQKVQVVVTVL DYDKIGKND AIGKVFVGYNLEHHHHHH
<b>Sequence Similarities</b>	Belongs to the synaptotagmin family. Contains 2 C2 domains.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">SYT1 synaptotagmin I [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">SYT1</a>
<b>Synonyms</b>	SYT1; synaptotagmin I; SVP65, SYT; synaptotagmin-1; P65;
<b>Gene ID</b>	<a href="#">6857</a>
<b>mRNA Refseq</b>	<a href="#">NM_001135805</a>
<b>Protein Refseq</b>	<a href="#">NP_001129277</a>
<b>MIM</b>	<a href="#">185605</a>
<b>Uniprot ID</b>	<a href="#">P21579</a>
<b>Chromosome Location</b>	12cen-q21

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**Pathway**


Acetylcholine Neurotransmitter Release Cycle, organism-specific biosystem;  
Botulinum neurotoxicity, organism-specific biosystem; Dopamine Neurotransmitter  
Release Cycle, organism-specific biosystem; Effects of Botulinum toxin, organism-  
specific biosystem; GABA synthesis, release, reuptake and degradation, organism-  
specific biosystem;

**Function**

1-phosphatidylinositol binding; calcium ion binding; calcium-dependent protein  
binding; calmodulin binding; identical protein binding;

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