

## Recombinant Human SYT1

Cat. No. SYT1-31492TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant fragment, corresponding to amino acids 96-421 of Human Synaptotagmin 1. Note: SYT1-31492TH is mutated in the position I367T and contains a deletion of three amino acids 117A, 118L, and 119K
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	96-421 a.a.
<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>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: PBS, pH 7.3 Note: Under these conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 500 µM.
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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**Sequence Similarities** Belongs to the synaptotagmin family. Contains 2 C2 domains.

## GENE INFORMATION

**Gene Name** [SYT1 synaptotagmin I \[ Homo sapiens \]](#)

**Official Symbol** [SYT1](#)

**Synonyms** SYT1; synaptotagmin I; SVP65, SYT; synaptotagmin-1; P65;

**Gene ID** [6857](#)

**mRNA Refseq** [NM\\_001135805](#)

**Protein Refseq** [NP\\_001129277](#)

**MIM** [185605](#)

**Uniprot ID** [P21579](#)

**Chromosome Location** 12cen-q21

**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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