

Recombinant Human SYT1, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	E.coli
ProteinLength	247 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	29.500kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 2mM DTT, 100mM Sodium chloride, pH 8.0

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MEPKEEEKLGKLGKQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKK KKFETKVHRKTLNPFVNEQFTFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEFKVPM NTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYVPTAGKLTVVILEAKNLKKMDV GGLSDPYVKIHLMQNGKRLKKKTTIKKNTLNPYYNESFSFEVPFEQIQKVQVVVTVL DYDKIGKND AIGKVFGYNLEHHHHHH
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

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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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