Recombinant Human SYT1

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

SPECIFICATION

Product Overview	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
Species	Human
Source	E.coli
ProteinLength	96-421 a.a.
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.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneConstituents: PBS, pH 7.3Note: Under these conditions, to avoid precipitation or protein dimerization, the product can be concentrated to a maximum of 500 μM.
Storage	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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