

Recombinant Human SYT1, His-tagged

Cat. No. SYT1-450H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The protein was expressed as 6*his-tagged fusion protein by E.Coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	77-422aa
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., 2001 [PubMed 11242035]).
Storage	The protein is stored in PBS buffer at -20 oC. Repeated freezethaw cycles should be avoided.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	SYT1 synaptotagmin I [Homo sapiens (human)]
Official Symbol	SYT1

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Synonyms	SYT1; P65; SYT; SVP65; synaptotagmin I; synaptotagmin-1; sytl; synaptotagmin 1
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; Botulinum neurotoxicity; Dopamine Neurotransmitter Release Cycle
Function	1-phosphatidylinositol binding; calcium ion binding; calcium-dependent phospholipid binding

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