

Recombinant Human Synaptotagmin I, His-tagged

Cat. No. SYT1-5131H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SYT1 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	SYT1 (Synaptotagmin-1) belongs to the synaptotagmin family and contains 2 C2 domains. The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca ²⁺ sensors in the process of vesicular trafficking and exocytosis. SYT1 is the master switch responsible for allowing the human brain to release neurotransmitters.
Concentration	0.25 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 2mM DTT, 20% glycerol and 100mM NaCl.
Purity	> 85% by SDS -PAGE
Sequence	136-382 amino acids: MEPKEEEKLG KLQYSLDYDF QNNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF ETKVHRKTLNPFVNEQFTFK VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMNTVDFG HVTEEWRDLQ SAEKEEQEKLG DICFSLRYV PTAGKLT VVI LEAKNLKKMD VGGLSDPYVK IHLMQNGKRL KKKKTTIKKN TLNPYYNESFSF

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Molecular Mass	29.5 kDa(256aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or -70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
Official Symbol	SYT1
GENE INFORMATION	
Gene Name	SYT1 synaptotagmin I [Homo sapiens]
Synonyms	SYT1; synaptotagmin I; P65; SYT; SVP65; DKFZp781D2042; synaptotagmin-1sytl; synaptotagmin 1; Synaptotagmin-1; Synaptotagmin I; Sytl; OTTHUMP00000166063; OTTHUMP00000166064
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; Effects of Botulinum toxin; GABA

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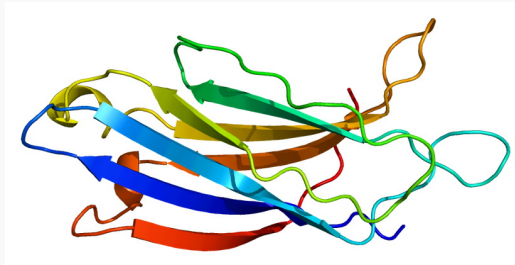
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synthesis,release; Glutamate Neurotransmitter Release Cycle; Neurotransmitter ReleaseCycle; Norepinephrine Neurotransmitter Release Cycle; SerotoninNeurotransmitter Release Cycle; Synaptic Transmission; Synaptic vesicle cycle;Translocation of BoNT Light chain; Transmission across Chemical Synapses

Function

1-phosphatidylinositolbinding; calcium ion binding; calcium-dependentprotein binding; calmodulin binding; identical protein binding; low-densitylipoprotein receptor binding; phospholipid binding; protein binding; syntaxin-1 binding; transporter activity

**P ProteinSYT1 PDB
1byn.**

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