

Recombinant Human Synaptotagmin I, GST-tagged

Cat. No. SYT1-437H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human synaptotagmin I expressed in <i>E.coli</i> was cloned with a N-terminal-GST tag and a linker. It consists of the human Synaptotagmin I (residues 96-421, swissprot accession P21579). The GST-tag is cleaved during purification. The protein is mutated in the position I367T and contains a deletion of three amino acids 117A, 118L, and 119K. MW = 37.8 kDa.
Species	Human
Source	E.coli
Protein Length	96-421 a.a.
Description	Synaptotagmin-1 is a protein that in humans is encoded by the SYT1 gene. 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 I participates in triggering neurotransmitter release at the synapse.
Purity	> 95% by SDS-PAGE. The protein was observed as a single band migrating at a molecular weight of (< 45 kDa).
Supplied As	1.0mg/ml in PBS pH7.3. The concentration is calculated from the absorbance at 280nm (e ₂₈₀ = 31150 M ⁻¹ cm ⁻¹).
Characteristics	Under the above described conditions, to avoid precipitation or protein dimerization,

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the product can be concentrated to a maximum of 500 µM.

Storage

-20°C. The protein is stable at 4°C for at least 2 weeks and at 25°C for at least several hours. After initial defrost, aliquot product into individual tubes and refreeze at -20°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name

SYT1 synaptotagmin I [Homo sapiens]

Synonyms

SYT1; synaptotagmin I; synaptotagmin 1; P65; SYT; SVP65; DKFZp781D2042; Synaptotagmin-1; DKFZp781D2042; OTTHUMP00000166064; SytI

Gene ID

6857

mRNA Refseq

NM_001135805

Protein Refseq

NP_001129277

MIM

185605

UniProt ID

P21579

Chromosome Location

12cen-q21

Pathway

Botulinum neurotoxicity; Synaptic Transmission

Function

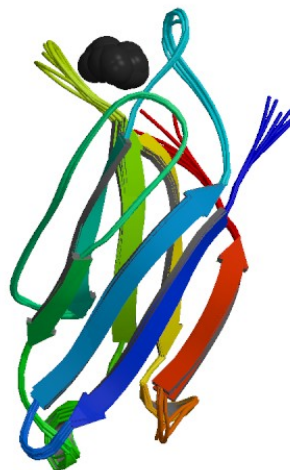
calcium ion binding; calcium-dependent protein binding; calmodulin binding; identical protein binding; low-density lipoprotein receptor binding; phosphatidylinositol binding; phospholipid binding; syntaxin-1 binding; transporter activity

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