

## Recombinant Human Synaptotagmin I, GST-tagged

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

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | 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. |
| <b>Species</b>          | Human  |
| <b>Source</b>           | E.coli   |
| <b>ProteinLength</b>    | 96-421 a.a.  |
| <b>Description</b>      | 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.                                  |
| <b>Purity</b>           | > 95% by SDS-PAGE. The protein was observed as a single band migrating at amolecular weight of (< 45 kDa).   |
| <b>Supplied As</b>      | 1.0mg/ml in PBS pH7.3.The concentration is calculated from the absorbance at 280nm (e280 = 31150 M-1 cm-1).  |
| <b>Characteristics</b>  | 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/defrost 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**

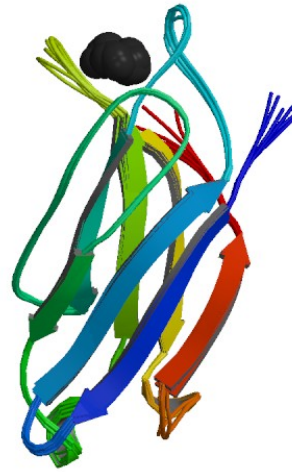
calcium ion binding; calcium-dependent protein binding; calmodulin binding; identical protein binding; low-density lipoprotein receptor binding; phosphatidylinositol binding; phospholipid binding; syntaxin-1 binding; transporter activity


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