

# Recombinant human Synaptotagmin-1 protein

Catalog Number: ATGP1091

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

136-382aa

### UniProt No.

P21579

### NCBI Accession No.

NP\_005630

### Alternative Names

synaptotagmin 1, P65, SVP65, SYT

### Additional Information

N- terminal Sequence Analysis: Met-Glu -Pro-Lys-Gl

## PRODUCT SPECIFICATION

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### Molecular Weight

29.5 kDa (256aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Synaptotagmin-1 (SYT1) belongs to the synaptotagmin family 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. Recombinant human SYT1 protein, fused to His-tag at C-terminus, was expressed in E. coli

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and purified by using conventional chromatography techniques.

## Amino acid Sequence

MEPKKEEEKLG KLYSLDYDF QNNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF ETKVHRKTLN PVFNEQFTFK  
VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMNTVDFG HVTEEWRDLQ SAEKEEQEKL GDICFSLRYV PTAGKLTWVI  
LEAKNLKKMD VGGLSDPYVK IHLMQNGKRL KKKKTTIKKN TLNPYYNESF SFEVPEFIQ KVQVWTVLD YDKIGKNDAI  
GKVFVGYNLE HHHHHH

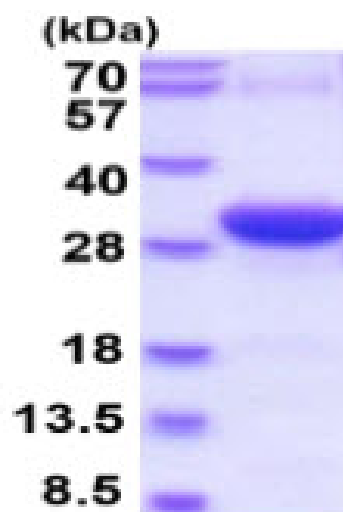
## General References

Han C., et al. (2009) J. Immunol. 182:2986-2996

Xi, D., et al. (1999) Neuroscience 88: 425-435.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)