

AR39031PU-N**Human Synaptotagmin-1 (136-382, His-tag) - Purified****Alternate names:**

SVP65, SYT, SYT1, Synaptotagmin I, Synaptotagmin1, Sytl, p65

Quantity:

50 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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 Ca²⁺ sensors in the process of vesicular trafficking and exocytosis. SYT1 is the master switch responsible for allowing the human brain to release neurotransmitters.

Uniprot ID:[P21579](#)**NCBI:**[NP_001129277](#)**GeneID:**[6857](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85% pure by SDS-PAGE**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 100mM NaCl**Description:**

Recombinant Human SYT1 protein, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MEPKEEEKLG KLYSLDYDF QNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF
ETKVHRKTLN PVFNEQFTFK VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMTVDFG
HVTEWRDLQ SAEKEEQEKL GDICFSLRYV PTAGKLTVVI LEAKNLKKMD VGGLSDPYVK
IHLMQNGKRL KKKKTIIKKN TLNPPYNESF SFEVPPFEQIQ KVQVVVTVLD YDKIGKNDAI
GKVFVGYNLE HHHHHH

N-terminal Sequence Analysis: Met-Glu-Pro-Lys-Glu**Molecular weight:** 29.5 kDa (256aa), confirmed by MALDI-TOF**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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

Pictures:

Recombinant human Synaptotagmin-1,
136-382aa, His-tagged

