

Recombinant human Synaptotagmin-1 protein

Catalog Number: ATGP1091

PRODUCT INFORMATION

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

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

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

MEPKEEEKLG KLQYSLDYDF QNNQLLVGII QAAELPALDM GGTSDPYVKV FLLPDKKKKF ETKVHRKTLN PVFNEQFTFK
VPYSELGGKT LVMAVYDFDR FSKHDIIGEF KVPMTVDVFG HVTEEWRDLQ SAEKEEQEKL GDICFSLRYV PTAGKLTVVI
LEAKNLKKMD VGGLSDPYVK IHLMQNGKRL KKKKTTIKKN TLNPYYNESF SFEVPFEQIQ KVQVVVTVLD YDKIGKNDAL
GKVFGVGNLE HHHHHH

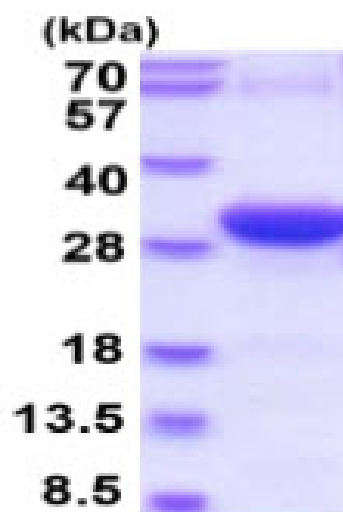
General References

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)