

# Recombinant human VAMP-1 protein

Catalog Number: VAM0711

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-91aa

### UniProt No.

P23763

### NCBI Accession No.

NP\_055046

### Alternative Names

Vesicle-associated membrane protein 1 isoform 1, VAMP1, SYB1, Synaptobrevin 1, VAMP-1, Synaptobrevin-1, Vesicle-associated membrane protein 1, Vesicle-associated membrane protein 1 isoform 1 DKFZp686H12131, SYB 1, Synaptobrevin1, VAMP 1, Vesicle associated membrane protein 1, Vesicle associated membrane protein 1 synaptobrevin 1.

## PRODUCT SPECIFICATION

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### Molecular Weight

11.9 kDa (111aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM EDTA

### Purity

> 95% 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

Synaptobrevin 1 (Vesicle-associated membrane, VAMP1) is one of the key proteins in the SNARE complex which is involved in regulated exocytosis. Synaptobrevin1 binds to t-SNAREs, syntaxin (STX) and SNAP25, after the fusion of synaptic vesicles to plasma membrane. Recombinant human Synaptobrevin1, fused to His- tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MSAPAQPPAE GTEGTAPGGG PPGPPNMTS NRRLQQTQAQ VEEVVDIIRV  
NVDKVLERDQ KLSELDADRAD ALQAGASQFE SSAAKLKRKY W

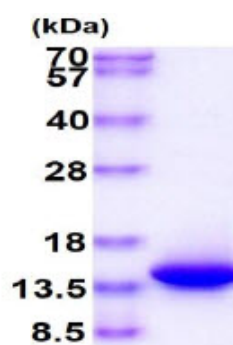
## General References

Nystuen AM., et al. (2007) Neurogenetics. 8:1-10.  
Pennuto M., et al. (2003) Mol Biol Cell. 14:4909-19.

## DATA

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### SDS-PAGE



15% SDS-PAGE (3ug)

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