

# Recombinant mouse VAMP-2 protein

Catalog Number: ATGP3555

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-94aa

### UniProt No.

P63044

### NCBI Accession No.

NP\_033523.1

### Alternative Names

Vesicle-associated membrane protein 2, Syb-2, sybII

## PRODUCT SPECIFICATION

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### Molecular Weight

12.8 kDa (118aa) Confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 1mM EDTA, 0.1mM PMSF, 10% glycerol

### Purity

> 90% 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

Vamp2, also known as Vesicle-associated membrane protein 2, is involved in the targeting and/or fusion of transport vesicles to their target membrane. It modulates the gating characteristics of the delayed rectifier voltage-dependent potassium channel KCNB1. Vamp2 proteins localized to the cytoplasmic surface of synaptic vesicle, consists of a proline-rich N-terminal region, a highly conserved hydrophilic domain, followed by a transmembrane anchor and a C-terminal. This proteins also known to mediate cAMP-stimulated exocytosis in nerve cells and in renal cells of the juxtaglomerular apparatus. Recombinant mouse Vamp2 protein, fused to His-

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tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

### Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MSATAA TVPPAAPAGE GGPPAPPPNL TSNRRLLQQTQ AqvDEVVDIM  
RVNVDKVLER DQKLSELDLR ADALQAGASQ FETSAAKLKR KYWWKNLK

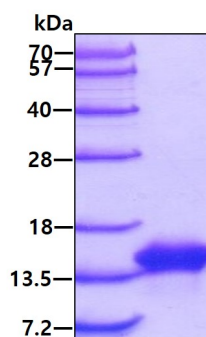
### General References

Scales S.J., et al. (2002) J Biol Chem. 277(31):28271-9.

Mendez M., et al. (2011) J Biol Chem. 286(32):28608-18

## DATA

### SDS-PAGE



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