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# Recombinant human VAMP-4 protein

Catalog Number: ATGP0360

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-115aa

#### **UniProt No.**

075379

#### **NCBI Accession No.**

NP 003753

#### **Alternative Names**

Vesicle-associated membrane protein 4, VAMP24, VAMP 4, Vesicle associated membrane protein 4 isoform CRA a, Vesicle associated membrane protein 4 isoform CRA b

## **PRODUCT SPECIFICATION**

# **Molecular Weight**

14.5 kDa (123aa) confirmed by MALDI-TOF

# Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

## 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**

VAMP4, also known as vesicle-associated membrane protein 4, is a member of the synaptobrevin family involved in docking and/or fusion of vesicles with cell membrane. This protein is enriched in the trans-Golgi network and may play a role in trans-Golgi network-to-endosome transport. VAMP4 is involved in the pathway that functions



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to remove an inhibitor (probably synaptotagmin-4) of calcium-triggered exocytosis during the maturation of secretory granules. Recombinant human VAMP4 protein, fused to His-tag at C-terminus, was expressed in E. coli and purified by using conventional chromatography.

# **Amino acid Sequence**

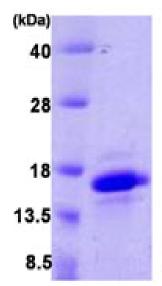
MPPKFKRHLN DDDVTGSVKS ERRNLLEDDS DEEEDFFLRG PSGPRFGPRN DKIKHVQNQV DEVIDVMQEN ITKVIERGER LDELQDKSES LSDNATAFSN RSKQLRRQMW WRGCKLEHHH HHH

## **General References**

Tran TH., et al. (2007) J Cell Sci. 120:1028-41. Steegmaier M., et al. (1999) Mol Biol Cell. 10(6):1957-72.

# **DATA**

#### **SDS-PAGE**



15% SDS-PAGE (3ug)

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

