

Recombinant human VAMP-4 protein

Catalog Number: ATGP0360

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-115aa

UniProt No.

O75379

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 ERRNLEDDSD DEEEDFFLRG PSGPRFGPRN DKIKHVQNQV DEVIDVMQEN ITKVIERGER
LDELQDKSES LSDNATAFSN RSKQLRRQMW WRGCKLEHHH HHH

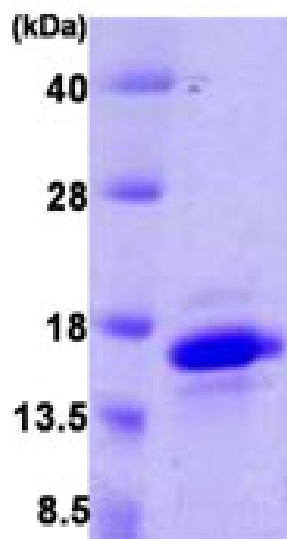
General References

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



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

15% SDS-PAGE (3ug)