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

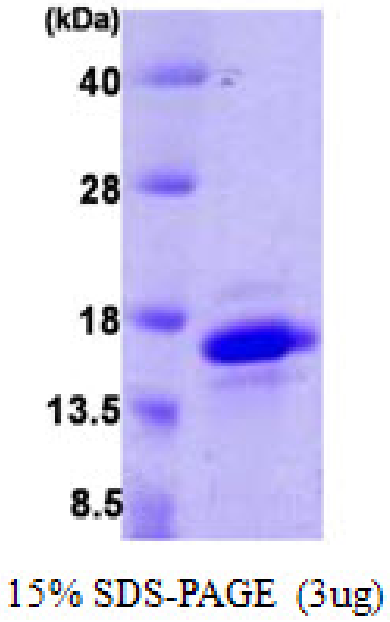
MPPKFKRHLN DDDVTGSVKS ERRNLLEDDS DEEEDFFLRG PSGPRFGPRN DKIKHVQNQV DEVIDVMQEN ITKVIERGER LDELQDKSES LSDNATAFSN RSKQLRRQMW WRGCKLEHHH HHH

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.