Recombinant human VAMP-2 protein

Catalog Number: ATGP3636

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-94aa

UniProt No.
P63027

NCBI Accession No.
NP_055047.2

Alternative Names
Vesicle-associated membrane protein 2 isoform 1, VAMP-2, SYB2

PRODUCT SPECIFICATION

Molecular Weight
12.8 kDa (118aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

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

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

Description
VAMP2, also known as vehicle-associated membrane protein 2 isoform 1, which is an integral membrane protein 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. VAMP2 is predominantly expressed in Langerhans islets and glomerular cells. The N-terminal domain of the protein forms a specific SNARE complex with the target membrane-associated t- or Q-SNAREs syntaxin 1 and SNAP-25. Recombinant human VAMP2 protein, fused to His-tag at N-terminus, was expressed in E, coli and using conventional

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chromatography.

Amino acid Sequence

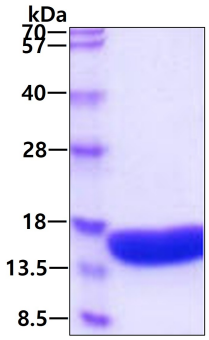
<MGSSHHHHHH SSGLVPRGSH MGSH>MSATAA TAPPAAPAGE GGPPAPPPNL TSNRRLQQTQ AQVDEVVDIM RVNVDKVLER DQKLSELDDR ADALQAGASQ FETSAAKLKR KYWWKNLK

General References

Lin RC., et al. (1997) Neuron. 19(5):1087-94.
Hanson PI., et al. (1997) Cell. 90(3):523-35.
Scales SJ., et al. (2002) J Biol Chem. 277(31):28271-9.
Windoffer R., et al. (1999) Cell Tissue Res. 296(3):499-510.

DATA

SDS-PAGE



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