

VAMP4 Blocking Peptide (Center)

Synthetic peptide Catalog # BP20234c

Specification

VAMP4 Blocking Peptide (Center) - Product Information

Primary Accession <u>075379</u>

Other Accession <u>070480</u>, <u>032L97</u>, NP 003753.2

VAMP4 Blocking Peptide (Center) - Additional Information

Gene ID 8674

Other Names

Vesicle-associated membrane protein 4, VAMP-4, VAMP4

Target/Specificity

The synthetic peptide sequence is selected from aa 76-90 of HUMAN VAMP4

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

VAMP4 Blocking Peptide (Center) - Protein Information

Name VAMP4

Function

Involved in the pathway that functions to remove an inhibitor (probably synaptotagmin-4) of calcium-triggered exocytosis during the maturation of

VAMP4 Blocking Peptide (Center) - Background

Synaptobrevins/VAMPs, syntaxins, and the 25-kD

synaptosomal-associated protein SNAP25 are the main components of a

protein complex involved in the docking and/or fusion of synaptic

vesicles with the presynaptic membrane. The protein encoded by this

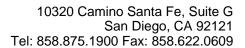
gene is a member of the vesicle-associated membrane protein

(VAMP)/synaptobrevin family. This protein may play a role in

trans-Golgi network-to-endosome transport.

VAMP4 Blocking Peptide (Center) - References

Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006) Sabra, M.M., et al. Mol. Genet. Metab. 85(2):133-139(2005) Ballif, B.A., et al. Mol. Cell Proteomics 3(11):1093-1101(2004) Hinners, I., et al. EMBO Rep. 4(12):1182-1189(2003)





secretory granules. May be a marker for this sorting pathway that is critical for remodeling the secretory response of granule.

Cellular Location

Golgi apparatus, trans-Golgi network membrane; Single-pass type IV membrane protein Note=Associated with trans Golgi network (TGN) and newly formed immature secretory granules (ISG). Not found on the mature secretory organelles

VAMP4 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

• Blocking Peptides