

## VAMP4 Human

**Description:** VAMP4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 123 amino acids (1-115 a.a.) and having a molecular mass of 14.5kDa. VAMP4 is fused to 8 amino acids His Tag at C-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-721

For research use only.

**Synonyms:** Vesicle-associated membrane protein 4, VAMP-4, VAMP4, VAMP24.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MPPKFKRHLN DDDVTGGSVKS ERRNLLEDDS DEEDFFLRG  
PSGPRFGPRN DKIKHVQNQV DEIDVMQEN ITKVIERGER LDELQDKSES LSDNATAFSN  
RSKQLRRQMW WRGCKLEHHH HHH.

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

The VAMP4 protein solution contains 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, and 20% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

VAMP4 belongs to the synaptobrevin family who are involved in docking and/or fusion of vesicles with cell membrane. VAMP4 is enriched in the trans-Golgi network and may be a factor in the trans-Golgi network-to-endosome transport. VAMP4 is involved in the pathway which functions to eliminate an inhibitor (most likely synaptotagmin-4) of calcium-triggered exocytosis during the maturation of secretory granules. Synaptobrevins, syntaxins, and SNAP25 are the chief components of a protein complex involved in the docking and/or fusion of synaptic vesicles with the presynaptic membrane.

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