32-5212: Recombinant Human Vesicle-Associated Membrane Protein 7

Alternative Name : Vesicle-associated membrane protein 7,Tetanus-insensitive VAMP,tetanus neurotoxin-insensitive VAMP,Synaptobrevin-like protein 1,TI-VAMP,VAMP-7,TIVAMP,SYBL1.

Description

Source : E.coli. VAMP7 Human Recombinant produced in E. coli is a single polypeptide chain containing 211 amino acids (1-188) and having a molecular mass of 23.0 kDa.VAMP7 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Vesicle-Associated Membrane Protein 7 (VAMP7) is a member of the synaptobrevin family. VAMP7 is a transmembrane protein, which is a member of the soluble N-ethylmaleimide-sensitive factor attachment protein receptor (SNARE) family. VAMP7 is involved in the targeting and/or fusion of transport vesicles to their target membrane during transport of proteins from the early endosome to the lysosome. VAMP7 localizes to late endosomes and lysosomes and is involved in the fusion of transport vesicles to their target membranes. VAMP7 is essential for heterotypic fusion of late endosomes with lysosomes and homotypic lysosomal fusion. It is also necessary for calcium regulated lysosomal exocytosis. In addition, VAMP7 is involved in the export of chylomicrons from the endoplasmic reticulum to the cis Golgi. Furthermore, VAMP7 is needed for exocytosis of mediators during eosinophil and neutrophil degranulation, and target cell killing by natural killer cells.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The VAMP7 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl and 20% glycerol.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMAILFAV VARGTTILAK HAWCGGNFLE VTEQILAKIP SENNKLTYSH GNYLFHYICQ DRIVYLCITD DDFERSRAFN FLNEIKKRFQ TTYGSRAQTA LPYAMNSEFS SVLAAQLKHH SENKGLDKVM ETQAQVDELK GIMVRNIDLV AQRGERLELL IDKTENLVDS SVTFKTTSRN LARAMCMKNL K