

## VAMP2 Human

**Description:** VAMP2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 126 amino acids (1-89) and having a molecular mass of 13.8 kDa. The VAMP contains 37 amino acids His-Tag fused at N-terminus and purified by standard chromatography techniques.

**Catalog #:** PRPS-585

For research use only.

**Synonyms:** Vesicle-associated membrane protein 2, SYB2, VAMP-2, Synaptobrevin-2, VAMP2, FLJ11460.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSA  
TAATAPPAAP AGEPPAPP PNLTSNRLQ QTQAQVDEVV DIMRVNVDKV LERDQKLSEL  
DDRADALQAG ASQFETSAK LKRKYW.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The protein solution contains 1X PBS and 1mM EDTA.

**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:**

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**Introduction:**

Synaptobrevin 2 which is an 18 kDa 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. Synaptobrevin 2 is predominantly expressed in Langerhans islets and glomerular cells. The N-terminal domain of the protein (residues 1-89) forms a specific SNARE complex with the target membrane-associated t- or Q-SNAREs syntaxin 1 and SNAP-25.

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