

Recombinant Human vesicle-associated membrane protein 2 (synaptobrevin 2) Protein, His tagged

Cat. No. VAMP2-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human VAMP2 protein, fused to His-tag at N-terminus, was expressed in E. coli and using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-94aa
Description	The protein encoded by this gene is a member of the vesicle-associated membrane protein (VAMP)/synaptobrevin family. 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. This gene is thought to participate in neurotransmitter release at a step between docking and fusion. The protein forms a stable complex with syntaxin, synaptosomal-associated protein, 25 kD, and synaptotagmin. It also forms a distinct complex with synaptophysin. It is a likely candidate gene for familial infantile myasthenia (FIMG) because of its map location and because it encodes a synaptic vesicle protein of the type that has been implicated in the pathogenesis of FIMG.
Tag	N-His
Form	Liquid

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Molecular Mass	12.8 kDa
AA Sequence	MSATAATAPPAAPAGEGGPPAPPPNLTSNRRLQQTQAQVDEVVDIMRVNVDKVLE RDQKLSELDADRADALQAGASQFETSAAKLKRKYWWKNLK
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol, 0.1mM PMSF
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
References	1. Lin RC., et al. (1997) Neuron. 19(5):1087-94. 2. Hanson PI., et al. (1997) Cell. 90(3):523-35. 3. Scales SJ., et al. (2002) J Biol Chem. 277(31):28271-9. 4. Windoffer R., et al. (1999) Cell Tissue Res. 296(3):499-510.

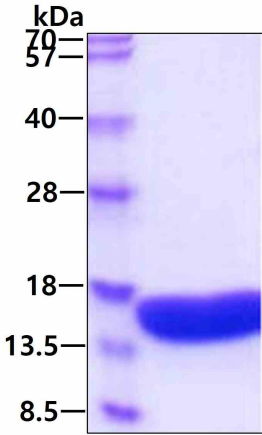
GENE INFORMATION

Gene Name	VAMP2 vesicle-associated membrane protein 2 (synaptobrevin 2) [Homo sapiens (human)]
Official Symbol	VAMP2

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Synonyms	VAMP2; vesicle-associated membrane protein 2 (synaptobrevin 2); SYB2; vesicle-associated membrane protein 2; VAMP 2; synaptobrevin 2; synaptobrevin-2; vesicle associated membrane protein 2; VAMP-2; FLJ11460;
Gene ID	6844
mRNA Refseq	NM_014232
Protein Refseq	NP_055047
MIM	185881
UniProt ID	P63027
SDS-PAGE	 3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.