# **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 109-386aa

**UniProt No.** 000445

NCBI Accession No. NP\_003171

Alternative Names Synaptotagmin-5, Synaptotagmin V

## **PRODUCT SPECIFICATION**

Molecular Weight 33.6 kDa (301aa) confirmed by MALDI-TOF

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 40% glycerol, 0.2M NaCl, 2mM DTT

Purity

> 90% by SDS-PAGE

**Tag** His-Tag

Application SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### BACKGROUND

## Description

Synaptotagmins, such as SYT5, are a family of type III membrane proteins characterized by cytoplasmic repeats related to protein kinase C regulatory (C2) domains, which are thought to bind calcium. Synaptotagmins may act both as negative regulators of vesicle fusion, allowing fusion in the presence of calcium, and as calcium receptors or sensor molecules. Recombinant human SYT5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



### **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MGSLGRLQYS LDYDFQSGQL LVGILQAMGL AALDLGGSSD PYVRVYLLPD KRRRYETKVH RQTLNPHFGE TFAFKVPYVE LGGRVLVMAV YDFDRFSRND AIGEVRVPMS SVDLGRPVQA WRELQAAPRE EQEKLGDICF SLRYVPTAGK LTVIVLEAKN LKKMDVGGLS DPYVKVHLLQ GGKKVRKKKT TIKKNTLNPY YNEAFSFEVP CDQVQKVQVE LTVLDYDKLG KNEAIGRVAV GAAAGGAGLR HWADMLANPR RPIAQWHSLR PPDRVRLLPA P

### **General References**

DATA

Craxton M.A., Olsen A., et al. (1997), Genomics 42:165-169

SDS-PAGE	
(kDa)	
70	
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40	and the second division of the second divisio
28	
18	10000
13.5	
8.5	
	SCARLED STREET, SKI MA
15% SD	S-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.