

Recombinant Human synaptotagmin V, His-tagged

Cat. No. SYT5-307H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SYT5, 109-386aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	109-386 a.a.
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.
Form	Liquid. In 20mM Tris-HCl(pH 8.0) containing 40% glycerol, 0.2M NaCl, 2mM DTT
Molecular Mass	33.6 kDa (301aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSLGRLQYS LDYDFQSGQL LVGILQAMGL AALDLGGSSD PYVRVYLLPD KRRRYETKVH RQTLNPHFGE TFAFKVPYVE LGGRVLVMAV YDFDRFSRND AIGEVVPMS SVDLGRPVQA WRELQAAPRE EQEKLGDICF SLRYVPTAGK LTVIVLEAKN LKKMDVGGLS DPYVKVHLLQ GGKKVRKKKT TIKKNTLNPY YNEAFSFEVP CDQVQKVQVE LTVLDYDKLG

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KNEAIGRVAV GAAAGGAGLR HWADMLANPR RPIAQWHSRLR PPDRVRLLLPA P

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [SYT5 synaptotagmin V \[Homo sapiens \]](#)

Official Symbol SYT5

Synonyms SYT5; synaptotagmin V; synaptotagmin-5; synaptotagmin 5; sytV;

Gene ID [6861](#)

mRNA Refseq [NM_003180](#)

Protein Refseq [NP_003171](#)

MIM [600782](#)

UniProt ID [O00445](#)

Chromosome Location 19q

Pathway Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific

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biosystem;

Function

metal ion binding; transporter activity;

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