

**SYT13, 30-426aa, Human, His tag, E.coli**

**Cat.NO.: TP04128**

3th Edition

**Synonyms:**Synaptotagmin-13 isoform 1 , Synaptotagmin XIII

**Description:**SYT13 is a member of the large synaptotagmin protein family. Family members have an extracellular N-terminal transmembrane domain and a cytoplasmic C terminus with two tandem C2 domains (C2A and C2B). Synaptotogmin family members can form homo- and heteromeric complexes with each other. They also have different biochemical properties and developmental profiles, and patterns of tissue distribution. Synaptotagmins function as membrane traffickers in multicellular organisms. Two alternatively spliced transcript variants that encode different protein isoforms have been described for this gene. Recombinant human SYT13 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 buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT, 1mM PMSF, 1mM EDTA.

**Molecular Weight:**46.5 kDa (420aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSCRHMHPKKGLLPRDQDPDLEKAKPSLLGSAQQFNVKKSTEPVQPRALLKFP  
DIYGPRPAVTAPEVINYADYSLRSTEEPTAPASPQPPNDSRLKRQVTEELFILPQNGVVEDVCVMETWNPEKAASW  
NQAPKLHYCLDYDCQKAELFVTRLEAVTSNHDGGDCYVQGSVANRTGSVEAQTALKKRQLHTTWEEGLVPLAE  
EELPTATLTLRRTCDRFSRHSVAGELRLGLDGTSLVPLGAAQWGELKTSAKEPSAGAGEVLLSISYLPAAANRLLVLI  
KAKNLHSNQSKELGKDVSVKVTLKHQARKLKKKQTKRAKHKINPVWNEMIMFELPDDLLQASSVELEVLGQDDSG  
QSCALGHCSLGLHTSGSERSHWEEMLNPRRQIAMWHQLHL

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

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