# Recombinant human SYT13 protein

Catalog Number: ATGP2203

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
30-426aa

**UniProt No.**
Q7L8C5

**NCBI Accession No.**
NP_065877

**Alternative Names**
Synaptotagmin-13 isoform 1, Synaptotagmin-13 isoform 1, Synaptotagmin XIII

## PRODUCT SPECIFICATION

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

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

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 30% glycerol, 1mM DTT, 1mM PMSF, 1mM EDTA

**Purity**
> 85% 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**
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

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

**Amino acid Sequence**

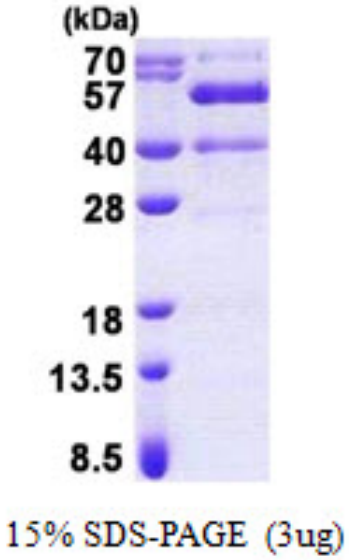
MGSSHHHHHH SSGLVPRGSH MGSCRHMHPK KGLLPRDQDP DLEKAKPSLL GSAQQFNVKK STEPVQPRAL LKFPDIYGPR PAVTAPEVIN YADYSLRSTE EPTAPASPQP PNDSRLKRQV TEELFILPQN GVVEDVCVME TWNPEKAASW NQAPKLHYCL DYDCQKAELF VTRLEAVTSN HDGGCDCYVQ GSVANRTGSV EAQTALKKRQ LHTTWEEGLV LPLAEEELPT ATLTLTLRTC DRFSRHSVAG ELRLGLDGTS VPLGAAQWGE LKTSAKEPSA GAGEVLLSIS YLPAANRLLV VLIKAKNLHS NQSKELLGKD VSVKVTLKHQ ARKLKKKQTK RAKHKINPVW NEMIMFELPD DLLQASSVEL EVLGQDDSGQ SCALGHCSLG LHTSGSERSH WEEMLKNPRR QIAMWHQLHL

**General References**

Fukuda M, et al. (2001). Biochem J. 354(Pt 2):249-57.

## DATA

**SDS-PAGE**




15% SDS-PAGE (3ug)

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