

Recombinant Human synaptotagmin XIII, His-tagged

Cat. No. SYT13-249H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SYT13, 30-426aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	30-426 a.a.
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 Mass	46.5 kDa (420aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSCRHMPK KLLPRDQDP DLEKAKPSLL

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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
 WEEMLNPRR QIAMWHQLHL

Purity >85% 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 SYT13 synaptotagmin XIII [Homo sapiens]

Official Symbol SYT13

Gene ID 57586

mRNA Refseq NM_020826.2

Protein Refseq NP_065877.1

MIM 607716

UniProt ID Q7L8C5

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Chromosome	11p12-p11
Location	

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