

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). Synaptotagmin 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

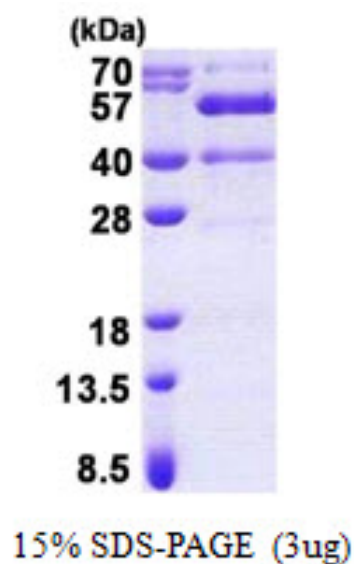
MGSSHHHHHH SSGLVPRGSH MGSCRHMHPK KGLLPDQDP DLEKAKPSLL GSAQQFNVKK STEPVQPRAL LKFPDIYGPR
PAVTAPEVIN YADYSLRSTE EPTAPASPQP PNDSRLKRQV TEELFILPQN GVVEDVCVME TWNPEKAASW NQAPKLHYCL
DYDCQKAELF VTRLEAVTSN HDGGCDCYVQ GSVANRTGSV EAQTALKKRQ LHTTWEEGLV LPLAEEELPT ATLTLTLRTC
DRFSRHSVAG ELRLGLDGTS VPLGAAQWGE LKTSAKEPSA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

General References

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

DATA

SDS-PAGE



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