

Recombinant human SYT4 protein

Catalog Number: ATGP1982

PRODUCT INFORMATION

Expression system

E.coli

Domain

38-425aa

UniProt No.

Q9H2B2

NCBI Accession No.

NP_065834

Alternative Names

Synaptotagmin-4, HsT1192, KIAA1342

PRODUCT SPECIFICATION

Molecular Weight

46.1 kDa (409aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT

Purity

> 90% 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

Synaptotagmin-4, also known as SYT4, belongs to the synaptotagmin family proteins. Synaptotagmins are a large gene family of synaptic vesicle type III integral membrane proteins that function as regulators of both exocytosis and endocytosis and are involved in neurotransmitter secretion from small secretory vesicles. SYT4 is expressed in neuronal tissues, and has the highest mRNA levels in the hippocampus. The proximity of the SYT4 gene to markers of several psychiatric disorders suggest an involvement of SYT4 in human disease. Recombinant human SYT4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

MGSSHHHHHH SSGLVPRGSH MCQRKSSKSN KTPPYKFVHV LKGVDIYPEN LNSKKKFGAD DKNEVKNKPA VPKNSLHLDL
EKRDNLGNFP KTNLKPSPS DLENATPKLF LEGEKESVSP ESLKSSTSLT SEEKQEKLTG LFFSLEYNFE RKAFVVNIKE
ARGLPAMDEQ SMTSDPYIKM TILPEKKHKV KTRVLRKTLD PAFDETFTFY GIPYTQIQEL ALHFTILSFD RFSRDDIIGE
VLIPLSGIEL SEGKMLMNRE IIKRNVKSS GRGELLISLC YQSTTNTLTV VVLKARHLPK SDVSGLSDPY VKVNLYHAKK
RISKKKTHVK KCTPNAVFNE LFVFDIPCEG LEDISVEFLV LDSERGSRNE VIGQLVLGAA AEGTGGEHWK EICDYPRRQI
AKWHVLC DG

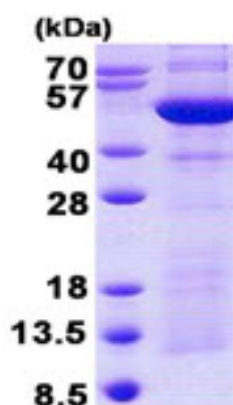
General References

Ferguson G D., et al. (2000) J Biol Chem. 275:36920-36926.

Ibata K., et al. (2002) Neurosci Res. 43: 401-406.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)