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# **Recombinant human SYT4 protein**

Catalog Number: ATGP1982

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

38-425aa

#### UniProt No.

O9H2B2

#### **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 diseasee. 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**

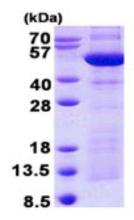
MGSSHHHHHH SSGLVPRGSH MCQRKSSKSN KTPPYKFVHV LKGVDIYPEN LNSKKKFGAD DKNEVKNKPA VPKNSLHLDL EKRDLNGNFP KTNLKPGSPS DLENATPKLF LEGEKESVSP ESLKSSTSLT SEEKQEKLGT LFFSLEYNFE RKAFVVNIKE ARGLPAMDEQ SMTSDPYIKM TILPEKKHKV KTRVLRKTLD PAFDETFTFY GIPYTQIQEL ALHFTILSFD RFSRDDIIGE VLIPLSGIEL SEGKMLMNRE IIKRNVRKSS GRGELLISLC YQSTTNTLTV VVLKARHLPK SDVSGLSDPY VKVNLYHAKK RISKKKTHVK KCTPNAVFNE LFVFDIPCEG LEDISVEFLV LDSERGSRNE VIGQLVLGAA AEGTGGEHWK EICDYPRRQI AKWHVLCDG

#### **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**



15% SDS-PAGE (3ug)

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

