

Recombinant Human SYT4, His-tagged

Cat. No. SYT4-7538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human SYT4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	38-425aa
Antigen 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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	46.1 kDa (409aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MCQRKSSKSN KTPPYKFVHV LKGVDIYPEN LNSKKKFGAD DKNEVKNKPA VPKNSLHLDL EKRDNLNGNFP KTNLKPGPS DLENATPKLF LEGEKESVSP ESLKSSTSLT SEEKQEKLGT LFFSLEYNFE

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RKAFVVNIKE ARGLPAMDEQ SMTSDPYIKM TILPEKKHKV KTRVLRKTLD
 PAFDETFTFY GIPYTQIQEL ALHFTILSFD RFSRDDIIGE VLIPLSGIEL
 SEGKMLMNRE IIKRNVKSS GRGELLISLC YQSTTNTLTV VVLKARHLPK
 SDVSGLSDPY VKVNLYHAKK RISKKKTHVK KCTPNAVFNE LFFVDIPCEG
 LEDISVEFLV LDSEGRSRNE VIGQLVLGAA AEGTGGEHWK EICDYPRRQI
 AKWHVLC DG

Purity >90% as determined by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml

GENE INFORMATION

Gene Name SYT4 synaptotagmin IV [Homo sapiens]

Official Symbol SYT4

Synonyms SYT4; synaptotagmin IV; synaptotagmin-4; HsT1192; KIAA1342; sytIV; synaptotagmin 4;

Gene ID 6860

mRNA Refseq NM_020783

Protein Refseq NP_065834

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MIM	600103
UniProt ID	Q9H2B2
Chromosome Location	18q12.3
Function	calcium ion binding; transporter activity;

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