

SYT4, 38-425aa, Human, His tag, E.coli

Cat.NO.: TP04130

3th Edition

Synonyms:Synaptotagmin-4, HsT1192, KIAA1342

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 conventional chromatography techniques.

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

Molecular Weight:46.1 kDa (409aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMCQRKSSKSNKTPPYKRVHVLKGVDIYPENLNSKKKFGADDKNEVKNKPAVPKN
SLHLDLEKRDNLGNFPKTNLKPSPDLNATPKLFLEGEKESVSPESLKSSTSLTSEEKQEKLGTLFFSLEYNFER
KAFVNIKEARGLPAMDEQSMSTDPYIKMTILPEKKHKVKTRVLRKTLDPAFDETFTFYGIPYTQIQELALHFTILSFD
RFSRDDIIGEVLIPLSGIELSEGKMLMNREIHKRNVRKSSGRGELLISLCYQSTTNTLTVVVLKARHLPKSDVSGLSDP
YVKVNLHYAKKRISKKTHVKCTPNAVFNELFVFDIPCEGLEDISVEFLVLDSEGRSRNEVIGQLVLGAAAEGTGGE
HWKEICDYPRRQIAKWHVLC DG

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.