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**Product Data Sheet**


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Product Name: SYT4 Human  
 Cat. No.: GP24761  
 Batch No.: 1

**Product Data**

|                     |   |                    |                         |
|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | E.coli.                 |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | HsT1192; KIAA1342; Synaptotagmin-4; Synaptotagmin IV; SytIV; SYT4.  |                    |                         |
| Amino Acid Sequence | MGSSHHHHHH SGLVPRGSH MCQRKSSKSN KTPPYKVVHV LKGVDIYPEN<br>LNSKKKFGAD DKNEVKNKPA VPKNSLHLDL EKRDNLGNFP KTNLKPSPS<br>DLENATPKLF LEGEKESVSP ESLKSSTSLT SEEKQEKLG LFFSLEYNFE<br>RKAFFVNIKE ARGLPAMDEQ SMTSDPYIKM TILPEKKHKV KTRVLRKTLT<br>PAFDETFTFY GIPYTQIQEL ALHFTILSFD RFSRDDIIGE VLIPLSGIEL<br>SEGKMLMNRE IIKRNVKSS GRGELLISLC YQSTTNTLTV VVLKARHLPK<br>SDVSGLSDPY VKVNLYHAKK RISKKKTHVK KCTPNAVFNE LFFVDIPCEG<br>LEDISVEFLV LDSERGSRNE VIGQLVLGAA AEGTGGEHWK EICDYPRRQI<br>AKWHVLC DG. |                    |                         |
| Formulation         | SYT4 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.1M NaCl, 20% glycerol and 1mM DTT.  |                    |                         |

**Introduction**

Synaptotagmin-4 (SYT4) is a part of the synaptotagmin proteins family. Synaptotagmins are a large gene family of synaptic vesicle type III integral membrane proteins that operate 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 implies an involvement of SYT4 in human disease such as pheochromocytoma, and parkinson's disease.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

SYT4 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 409 amino acids (38-425a.a) and having a molecular mass of 46.1kDa. SYT4 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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