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**Product Data Sheet**


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Product Name: SYCE3 Human  
 Cat. No.: GP24757  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Synaptonemal complex central element protein 3; chromosome 22 open reading frame 41; Testis highly expressed gene 2 protein; testis highly expressed protein 2; THEG2; C22orf41.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MDDADPEERN YDNMLKMLSD LNKDLEKLL EMEKISVQAT WMAYDMVVMR TNPTLAESMR RLED AFVNCK EEMEKNWQEL LHETKQRL		
Formulation	The SYCE3 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 20% glycerol.		

**Introduction**

Synaptonemal complex central element protein 3 (SYCE3) is key component of the transverse central element of synaptonemal complexes (SCS). The synaptonemal complex is a protein structure which forms between homologous chromosomes (2 pairs of sister chromatids) during meiosis and is assumed to mediate chromosome pairing, synapsis, and recombination (crossing-over). The SYCE3 protein is essential for chromosome loading of the central element-specific SCS proteins, as well as for initiating synapsis between homologous chromosomes. SYCE3 is also vital for fertility.

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

**Background**

SYCE3 Human Recombinant produced in E. coli is a single polypeptide chain containing 108 amino acids (1-88) and having a molecular mass of 12.8 kDa. SYCE3 is fused to a 20

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

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amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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