

**AR50496PU-S****Human SYCE3 (1-88, His-tag) - Purified****Alternate names:**

C22orf41, SYCE-3, THEG-2, THEG2, chromosome 22 open reading frame 41, synaptonemal complex central element protein 3, testis highly expressed protein 2

**Quantity:**

20 µg

**Concentration:**

0.5 mg/ml (determined by Bradford assay)

**Background:**

SYCE3(synaptonemal complex central element protein 3) is major component of the transverse central element of synaptonemal complexes (SCS). The synaptonemal complex is a protein structure that forms between homologous chromosomes (two pairs of sister chromatids) during meiosis and that is thought to mediate chromosome pairing, synapsis, and recombination (crossing-over). This protein required for chromosome loading of the central element-specific SCS proteins, and for initiating synapsis between homologous chromosomes.

**Uniprot ID:**

[A1L190](#)

**NCBI:**

[NP\\_001116697.1](#)

**GeneID:**

[644186](#)

**Species:**

Human

**Source:**

E. coli

**Format:**

**State:** Liquid purified protein

**Purity:** >90% by SDS - PAGE

**Buffer System:** 20 mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 2mM DTT

**Description:**

Recombinant human SYCE3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

**AA Sequence:**

MGSSHHHHHH SSGLVPRGSH MDDADPEERN YDNMLKMLSD LNKDLEKLLLE EMEKISVQAT  
WMAYDMVVMR TNPTLAESMR RLEDAFVNCK EEMEKNWQEL LHETKQRL

**Molecular weight:** 12.8 kDa (108aa), confirmed by MALDI-TOF

**Storage:**

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

**General Readings:**

Schramm S, et al. (2011) PLoS Genet, May;7(5):e1002088

Pictures:

