

SYCE3 Human

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

Catalog #: PRPS-1186

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.

For research use only.

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MDDADPEERN YDNMLKMLSD
LNKDLEKLL EMEKISVQAT WMAYDMVVMR TNPTLAESMR RLEDAFVNCK EEMEKNWQEL
LHETKQRL

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The SYCE3 solution (0.5mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 20% glycerol.

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.

Usage:

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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.

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