Recombinant SYCE2 protein (His tag)

Catalog Number	545225
Synonyms	Central element synaptonemal complex protein 1
Species	Human
Expression System	E. coli
Accession	Q6PIF2
Molecular Weight	Predictes a molecular mass of 14.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	56-162
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 56-162 aa (Q6PIF2) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human SYCE2 (56-162) Fragment: A high-quality, stable, and soluble protein fragment derived from Synaptonemal Complex Central Element Protein 2 (SYCE2), designed for structural and biochemical studies of meiotic chromosome dynamics. Synaptonemal Complex Central Element Protein 2 (SYCE2) is a major component of the transverse central element of synaptonemal complexes, which form between homologous chromosomes during meiotic prophase. It plays a critical role in synaptonemal complex assembly, stabilization, and recombination, requiring SYCP1 for incorporation into the central element. Located in the nucleus and associated with chromatin, SYCE2 specifically localizes to the central elements of synaptonemal complexes during prophase I, where it colocalizes with SYCE1 and is found exclusively at synapsed chromosome cores. This recombinant fragment (residues 56-162) represents a computationally selected stable and soluble unit ideal for investigating SYCE2's structural and functional properties.