Recombinant CYTSB protein (His tag)

Catalog Number	545139
Synonyms	Nuclear structure protein 5; NSP5; Sperm antigen HCMOGT-1; Sperm antigen with calponin homology and coiled-coil domains 1
Species	Human
Expression System	E. coli
Accession	Q5M775
Molecular Weight	Predictes a molecular mass of 15.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	952-1068
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 952-1068 aa (Q5M775) 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 Cytospin-B (SPECC1) Fragment (952-1068) - a high-purity protein fragment encompassing the Calponin-homology (CH) domain from human Cytospin-B. This product is an essential tool for researchers studying the structural and functional roles of the CH domain in nuclear architecture and sperm antigen-related processes. Cytospin-B (SPECC1) is a human protein with multiple aliases including Nuclear structure protein 5 (NSP5) and Sperm antigen HCMOGT-1. The full-length protein localizes to the nucleus, as evidenced by experimental data (PubMed:15602574), while specific isoforms (3, 4, and 5) are membrane-associated via lipid anchors. This nuclear and membrane localization suggests roles in structural organization and cellular compartmentalization. The protein contains calponin homology and coiled-coil domains, indicating potential involvement in cytoskeletal interactions and structural maintenance. The provided fragment specifically targets the Calponin-homology domain, enabling focused investigation of its contribution to the protein's overall function in nuclear structure and cellular organization.