Recombinant CCNC protein (His tag)

Catalog Number	542218
Synonyms	SRB11 homolog; hSRB11
Species	Human
Expression System	E. coli
Accession	P24863
Molecular Weight	Predictes a molecular mass of 34.90 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-283
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 1-283 aa (P24863) 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 Cyclin-C (hSRB11) Fragment (1-283) is a high-purity protein designed for studying the Cyclin N-terminal domain. This product enables researchers to investigate the role of Cyclin-C in transcriptional regulation and Mediator complex function, providing a targeted tool for domain-specific mechanistic studies. Cyclin-C, encoded by the CCNC gene, is a key component of the Mediator complex, which acts as a critical coactivator for regulated transcription of nearly all RNA polymerase II-dependent genes. The Mediator complex bridges gene-specific regulatory proteins to the basal RNA polymerase II transcription machinery, facilitating the assembly of functional preinitiation complexes. Cyclin-C binds to and activates CDK8, leading to phosphorylation of the RNA polymerase II C-terminal domain, a modification that may regulate transcription initiation. This protein is localized to the nucleus, where it participates in fundamental transcriptional control mechanisms essential for cellular gene expression programs.