Recombinant CAF1B protein (His tag)

Catalog Number	544899
Synonyms	CAF-1 subunit B; Chromatin assembly factor I p60 subunit; CAF-I 60 kDa subunit; CAF-I p60; M-phase phosphoprotein 7
Species	Human
Expression System	E. coli
Accession	Q13112
Molecular Weight	Predictes a molecular mass of 45.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	1-392
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-392 aa (Q13112) 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 Chromatin Assembly Factor 1 Subunit B (CAF-1 subunit B) fragment (amino acids 1-392) is a highly stable and soluble protein designed for structural and biochemical studies. This fragment retains key functional characteristics, making it ideal for investigating chromatin assembly, DNA replication, and repair mechanisms. The full-length Chromatin Assembly Factor 1 Subunit B (CHAF1B) is a critical component of the histone chaperone complex CAF-1, which facilitates the assembly of histone octamers onto DNA during replication and DNA repair processes. CAF-1 mediates the initial step of nucleosome assembly by delivering newly synthesized histones H3 and H4 to replicating DNA, with histones H2A/H2B subsequently binding to complete the histone octamer. The protein localizes to the nucleus and cytoplasm, specifically accumulating at DNA replication foci during interphase and becoming cytoplasmic during M-phase, underscoring its dynamic role in cell cycle-regulated chromatin organization.