Recombinant CHAP1 protein (His tag)

Catalog Number	541017
Synonyms	Zinc finger protein 828
Species	Human
Expression System	E. coli
Accession	Q96JM3
Molecular Weight	Predictes a molecular mass of 14.89 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	698-812
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 698-812 aa (Q96JM3) 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 CHAMP1 Fragment (aa 698-812) is a highly stable and soluble protein fragment derived from Chromosome Alignment-Maintaining Phosphoprotein 1, essential for accurate chromosome segregation during mitosis. This 115-amino acid fragment is ideal for structural studies and biochemical assays investigating mitotic regulation. CHAMP1 (Chromosome Alignment-Maintaining Phosphoprotein 1) is a human protein critical for proper chromosome alignment at metaphase and accurate segregation during mitosis. It functions by maintaining spindle microtubule attachment to kinetochores and is implicated in recruiting key kinetochore proteins CENPE and CENPF. The protein localizes to the nucleus, chromosomes, centromeres, kinetochores, and the cytoplasmic spindle apparatus, highlighting its central role in mitotic fidelity and genomic stability.