Recombinant CDC6 protein (His tag)

Catalog Number	548077
Synonyms	CDC6-related protein; Cdc18-related protein; HsCdc18; p62(cdc6); HsCDC6
Species	Human
Expression System	E. coli
Accession	Q99741
Molecular Weight	Predictes a molecular mass of 47.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	155-560
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 155-560 aa (Q99741) 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	This recombinant protein is a fragment (residues 155-560) of the human Cell division control protein 6 homolog (CDC6), a key regulator of DNA replication initiation and checkpoint control. The fragment was computationally designed for high stability and solubility, making it ideal for structural studies and biochemical assays. The full-length CDC6 protein is essential for initiating DNA replication and participates in checkpoint mechanisms that prevent mitosis until replication is complete. It localizes to the nucleus during the G1 phase and shifts to the cytoplasm in S-phase cells, reflecting its regulated role in the cell cycle. This protein ensures accurate genome duplication, underscoring its importance in cellular division and integrity.