Recombinant CDCA3 protein (His tag)

Catalog Number	549892
Synonyms	Gene-rich cluster protein C8; Trigger of mitotic entry protein 1; TOME-1
Species	Human
Expression System	E. coli
Accession	Q99618
Molecular Weight	Predictes a molecular mass of 12.04 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-99
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-99 aa (Q99618) 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 CDCA3 (Cell division cycle-associated protein 3) fragment (residues 1–99) for studying mitotic entry regulation. This stable, soluble fragment is ideal for structural and biochemical investigations of cell cycle control mechanisms. CDCA3, also known as TOME-1, is an F-box-like protein essential for initiating mitosis by participating in E3 ubiquitin ligase complexes that target WEE1 kinase for degradation during the G2/M transition, thereby promoting cell cycle progression. It is localized in the cytoplasm and cytosol, where it facilitates key regulatory events in mitotic entry. The provided fragment (residues 1–99) was computationally designed to ensure stability and solubility, enabling detailed analysis of its functional domains.