Recombinant CIP1 protein (His tag)

Catalog Number	546017
Synonyms	Cyclin-B1-interacting protein 1; Human enhancer of invasion 10; RING-type E3 ubiquitin transferase CCNB1IP1
Species	Human
Expression System	E. coli
Accession	Q9NPC3
Molecular Weight	Predictes a molecular mass of 23.47 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	1-188
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 1-188 aa (Q9NPC3) 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 E3 ubiquitin-protein ligase CCNB1IP1 (EC 2.3.2.27) Fragment (residues 1-188) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable, soluble unit of the enzyme, ideal for investigating its role in meiosis and cell cycle regulation. The full-length CCNB1IP1 is a RING-type E3 ubiquitin ligase that plays a critical role in limiting crossing-over during meiosis by regulating the colocalization of RNF212 with MutS-gamma-associated recombination sites. It is directed by MutL-gamma to accumulate at designated crossover sites and promotes the dissociation of RNF212 and MutS-gamma to facilitate recombination progression. Additionally, CCNB1IP1 modulates cyclin-B levels and participates in regulating G2 phase cell cycle progression, with overexpression delaying mitotic entry. The protein localizes to the nucleus and associates with the synaptonemal complex, underscoring its importance in chromosomal dynamics.