Recombinant INCE protein (His tag)

Catalog Number	543702
Species	Human
Expression System	E. coli
Accession	Q9NQS7
Molecular Weight	Predictes a molecular mass of 30.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	535-757
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 535-757 aa (Q9NQS7) 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 Inner Centromere Protein (INCENP) Fragment (aa 535-757) is a highly stable and soluble protein unit ideal for structural biology and biochemical studies. This fragment represents a key region of INCENP, a critical regulator of mitotic processes, offering researchers a reliable tool to investigate chromosome segregation mechanisms and protein interactions within the chromosomal passenger complex. The full-length Inner Centromere Protein (INCENP) is an essential component of the chromosomal passenger complex (CPC), serving as a master regulator of mitosis in humans. It acts as a molecular scaffold that coordinates CPC localization and activity, ensuring proper chromosome alignment and segregation during cell division. INCENP directly activates Aurora kinases B and C, facilitates chromatin-induced microtubule stabilization, and controls spindle assembly. Its dynamic subcellular localization—from centromeres and kinetochores during metaphase to the spindle midzone and midbody during anaphase and cytokinesis—underscores its multifaceted role in maintaining genomic integrity. This recombinant fragment (aa 535-757) provides a stable, soluble unit for probing INCENP's structural and functional properties without domain-specific constraints.