Recombinant CENPP protein (His tag)

Catalog Number	545198
Synonyms	CENP-P
Species	Human
Expression System	E. coli
Accession	Q6IPU0
Molecular Weight	Predictes a molecular mass of 34.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-288
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 1-288 aa (Q6IPU0) 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 Centromere Protein P (CENP-P) Fragment (1-288) is a high-quality, soluble protein designed for structural and biochemical studies. This fragment represents a stable, functionally relevant region of CENP-P, essential for kinetochore assembly and chromosome segregation, making it ideal for investigating centromere biology and mitotic mechanisms. Centromere Protein P (CENP-P), encoded by the CENPP gene, is a key component of the CENPA-CAD complex, which localizes to the centromere and plays a critical role in kinetochore assembly, mitotic progression, and accurate chromosome segregation. It contributes to the incorporation of newly synthesized CENPA into centromeres through interactions with the CENPA-NAC complex. CENP-P is exclusively localized in the nucleus at centromeres, where the CENPA-CAD complex is recruited to support chromosomal stability and cell division processes, as supported by scientific evidence.