Recombinant SPC24 protein (His tag)

Catalog Number	543166
Synonyms	hSpc24
Species	Human
Expression System	E. coli
Accession	Q8NBT2
Molecular Weight	Predictes a molecular mass of 24.10 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	1-197
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 1-197 aa (Q8NBT2) 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 Kinetochore protein Spc24 (hSpc24) fragment (amino acids 1-197) is a stable, soluble protein unit ideal for structural and biochemical studies of kinetochore assembly and microtubule interactions. Kinetochore protein Spc24 is a key component of the essential NDC80 complex in humans, required for accurate chromosome segregation and spindle checkpoint activity during cell division. It localizes specifically to the outer plate of the kinetochore from late prophase to anaphase, where it helps maintain kinetochore integrity and organizes microtubule-binding sites. The NDC80 complex, including Spc24, synergistically enhances microtubule affinity with the SKA1 complex and may track depolymerizing microtubules, underscoring its critical role in mitotic fidelity.