Recombinant NUDC2 protein (His tag)

Catalog Number	540871
Species	Human
Expression System	E. coli
Accession	Q8WVJ2
Molecular Weight	Predictes a molecular mass of 19.20 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	2-157
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 2-157 aa (Q8WVJ2) 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 NudC domain-containing protein 2 (NUDCD2) fragment (residues 2-157) is a high-purity protein designed for investigating the LIS1/dynein regulatory pathway. This fragment fully encompasses the conserved CS domain, making it an ideal tool for domain-specific functional studies in cellular dynamics and protein stabilization mechanisms. The full-length NUDCD2 protein plays a critical role in regulating the LIS1/dynein pathway by stabilizing LIS1 through interaction with the Hsp90 chaperone complex. This regulatory function is essential for proper microtubule dynamics and intracellular transport. NUDCD2 localizes to multiple key cellular structures including centrosomes during interphase, and to spindle poles and kinetochores during mitosis, indicating its importance in cell division processes. The protein's association with these fundamental cellular components underscores its significance in maintaining genomic stability and proper chromosome segregation.