Recombinant KIF2B protein (His tag)

Catalog Number	543136
Species	Human
Expression System	E. coli
Accession	Q8N4N8
Molecular Weight	Predictes a molecular mass of 46.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 47 kDa band.

Product Information

Sequence Region	147-542
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 147-542 aa (Q8N4N8) 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 Kinesin-like protein KIF2B (Fragment 147-542) is a high-quality, stable protein fragment derived from human KIF2B, designed for structural and biochemical studies. This 396-amino acid fragment retains key functional characteristics, offering researchers a reliable tool to investigate microtubule-dependent motor activity and spindle assembly mechanisms. Kinesin-like protein KIF2B is a plus end-directed microtubule-dependent motor protein essential for proper spindle assembly and chromosome movement during cell division. It localizes to the cytoplasm, cytoskeleton, microtubule organizing center, centrosome, spindle, and transiently associates with kinetochores at chromosome centromeres. KIF2B plays a critical role in chromosome congression and possesses microtubule depolymerization activity, making it fundamental for mitotic progression and genomic stability. The selected fragment (147-542) represents a stable, soluble region optimized for experimental applications while maintaining biological relevance.