Recombinant KIF9 protein (His tag)

Catalog Number	548272
Species	Human
Expression System	E. coli
Accession	Q9HAQ2
Molecular Weight	Predictes a molecular mass of 53.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 56 kDa band.

Product Information

Sequence Region	1-453
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 1-453 aa (Q9HAQ2) 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 KIF9 (Human) fragment (residues 1-453) is a high-purity protein designed for studying the kinesin motor domain's role in cellular transport and motility. This fragment provides an essential tool for investigating cytoskeletal dynamics and motor protein function in research applications. KIF9 is essential for normal male fertility and progressive spermatozoa motility, playing a critical role in cellular transport processes. The protein localizes to the cytoplasm, cytoskeleton, and specifically to cilia, flagella, and flagellar axonemes, indicating its involvement in microtubule-based movement and specialized cellular projections. Its presence in sperm flagella underscores its importance in reproductive biology and motility mechanisms.