Recombinant TEKT4 protein (His tag)

Catalog Number	538609
Species	Human
Expression System	E. coli
Accession	Q8WW24
Molecular Weight	Predictes a molecular mass of 48.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	40-435
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 40-435 aa (Q8WW24) 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 Tektin-4 (TEKT4) Fragment (40-435) is a high-quality protein preparation designed for structural and functional studies. This 396-amino acid fragment represents a stable, soluble domain of Tektin-4, optimized for experimental applications in ciliary and flagellar biology research. Tektin-4 is a microtubule inner protein (MIP) that forms filamentous polymers within the walls of ciliary and flagellar microtubules in the axoneme. As part of dynein-decorated doublet microtubules (DMTs), Tektin-4 plays a crucial role in the structural organization of motile cilia and flagella. The protein is localized to the cytoplasm and cytoskeleton, specifically within the cilium and flagellum axoneme, and contributes significantly to normal sperm motility. In sperm flagella, Tektin-4 is found on the abaxial (convex) surface of outer dense fibers, highlighting its importance in flagellar structure and function.