Recombinant TEKT2 protein (His tag)

Catalog Number	549952
Synonyms	Tektin-t; Testicular tektin; Testicular tektin B1-like protein; TEKTB1; Tektin-B1
Species	Human
Expression System	E. coli
Accession	Q9UIF3
Molecular Weight	Predictes a molecular mass of 47.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	1-398
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 1-398 aa (Q9UIF3) 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-2 (TEKT2) Fragment (residues 1-398) is a high-quality protein designed for structural and biochemical studies. This 398-amino acid fragment represents a stable and soluble unit of Tektin-2, optimized for research applications focusing on ciliary and flagellar axoneme assembly and microtubule organization. Tektin-2 (TEKT2) is a microtubule inner protein (MIP) integral to the structure of dynein-decorated doublet microtubules (DMTs) in cilia and flagellar axonemes. It plays a critical role in the assembly or attachment of the inner dynein arm to microtubules in sperm flagella and tracheal cilia, forming filamentous polymers within ciliary and flagellar microtubule walls. Tektin-2 localizes to the cytoplasm, specifically within the cytoskeleton of cilium and flagellum axonemes, as well as the microtubule organizing center, and has been observed to colocalize with CCDC172 at the perinuclear region. Its functions are essential for proper ciliary and flagellar motility and structure.