Recombinant TEKL1 protein (His tag)

Catalog Number	550952
Synonyms	Coiled-coil domain-containing protein 105
Species	Human
Expression System	E. coli
Accession	Q8IYK2
Molecular Weight	Predictes a molecular mass of 49.54 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	81-499
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 81-499 aa (Q8IYK2) 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-like protein 1 (TEKTL1) fragment (residues 81-499) is a high-quality protein designed for structural and functional studies. This 419-amino acid fragment offers a stable and soluble unit ideal for investigating microtubule organization and flagellar motility mechanisms. Tektin-like protein 1 functions as a microtubule inner protein within sperm flagellar axonemes, forming extensive cross-linking networks that stabilize doublet microtubules and enable proper flagellar beating. Located specifically in the flagellum axoneme, this protein plays a crucial role in cytoskeletal organization and motile cilia function, with implications for understanding sperm motility and ciliary-related disorders.