Recombinant TBD protein (His tag)

Catalog Number	541499
Synonyms	Delta-tubulin
Species	Human
Expression System	E. coli
Accession	Q9UJT1
Molecular Weight	Predictes a molecular mass of 52.69 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 53 kDa band.

Product Information

Sequence Region	1-453
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 1-453 aa (Q9UJT1) 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 Tubulin delta chain (Delta-tubulin) fragment (1-453) is a high-quality protein product designed for research on hedgehog signaling and ciliary function. This stable, soluble fragment enables reliable structural and biochemical studies. Tubulin delta chain (Delta-tubulin), encoded by the TUBD1 gene in humans, acts as a positive regulator of hedgehog signaling and plays a critical role in regulating ciliary function. The protein localizes to multiple cellular compartments including the nucleus, cytoplasm, centrosome, centrioles, and cilia, where it associates with centrioles and specialized microtubule structures like the manchette during sperm development. These localization patterns underscore its importance in cellular organization and signaling pathways.