Recombinant TBE protein (His tag)

Catalog Number	551290
Synonyms	Epsilon-tubulin
Species	Human
Expression System	E. coli
Accession	Q9UJT0
Molecular Weight	Predictes a molecular mass of 54.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	1-475
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 1-475 aa (Q9UJT0) 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	This product is a high-quality recombinant protein corresponding to amino acids 1-475 of human Tubulin epsilon chain (Epsilon-tubulin), encoded by the TUBE1 gene. This fragment has been computationally selected to provide a stable and soluble unit ideal for structural studies and biochemical characterization. Tubulin epsilon chain (Epsilon-tubulin) is a member of the tubulin superfamily. According to its subcellular location, the full-length protein is found in the cytoplasm, cytoskeleton, microtubule organizing center, and centrosome, where it is associated with the pericentriolar material. This localization suggests a critical role in centrosome structure and function, which is essential for microtubule organization, cell division, and cell polarity. The provided recombinant fragment represents a significant portion of the protein, facilitating research into its biochemical properties and interactions within these key cellular compartments.