Recombinant TBB4B protein (His tag)

Catalog Number	542489
Synonyms	Tubulin beta-2 chain; Tubulin beta-2C chain
Species	Human
Expression System	E. coli
Accession	P68371
Molecular Weight	Predictes a molecular mass of 51.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	1-445
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 1-445 aa (P68371) 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 beta-4B chain (TUBB4B) fragment (residues 1-445) is a high-quality protein product designed for structural and biochemical studies. This fragment represents a stable, soluble unit of tubulin, ideal for investigating microtubule dynamics and cytoskeletal functions. Tubulin beta-4B chain, encoded by the TUBB4B gene, is a key component of microtubules—cylindrical structures formed by alpha- and beta-tubulin heterodimers. Microtubules polymerize through the addition of GTP-bound tubulin dimers, which hydrolyze GTP to GDP after incorporation, influencing microtubule stability and dynamics. This protein is localized to the cytoplasm and cytoskeleton, including flagellar axonemes, playing essential roles in cell division, intracellular transport, and cellular motility. The provided fragment spans the full-length sequence (1-445), enabling detailed analysis of tubulin's functional domains.