Recombinant TPPP3 protein (His tag)

Catalog Number	549906
Synonyms	TPPP/p20
Species	Human
Expression System	E. coli
Accession	Q9BW30
Molecular Weight	Predictes a molecular mass of 20.51 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	2-176
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 2-176 aa (Q9BW30) 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 TPPP3 (TPPP/p20) Fragment (aa 2-176) - A highly soluble and stable protein fragment ideal for studying microtubule dynamics regulation and cytoskeletal function in biochemical and structural research applications. Tubulin polymerization-promoting protein family member 3 (TPPP3/p20) is a key regulator of microtubule dynamics with demonstrated microtubule bundling activity. This protein plays crucial roles in cellular processes including embryo implantation and decidualization through its regulation of beta-catenin signaling pathways. TPPP3 localizes to the cytoplasm and cytoskeleton, where it functions as an important modulator of microtubule organization and stability. The full-length protein's involvement in fundamental biological processes makes it a valuable target for research in cell biology, developmental biology, and cytoskeletal dynamics.