Recombinant MTCL3 protein (His tag)

Catalog Number	550377
Species	Human
Expression System	E. coli
Accession	Q5TF21
Molecular Weight	Predictes a molecular mass of 47.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 60 kDa band.

Product Information

Sequence Region	346-737
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 346-737 aa (Q5TF21) 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 Microtubule Cross-linking Factor 3 (MTCL3) Fragment (346-737) is a high-purity protein designed for structural and biochemical studies. This 392-amino acid fragment was computationally selected to ensure stability and solubility, making it an ideal tool for investigating microtubule-associated protein interactions and membrane-related functions. Microtubule Cross-linking Factor 3 (MTCL3) is a human protein encoded by the MTCL3 gene (UniProt ID: Q5TF21). The full-length protein is localized to the membrane and is characterized as a single-pass membrane protein. While detailed functional data is limited, its membrane association and microtubule cross-linking nomenclature suggest potential roles in cytoskeletal organization, cellular structure maintenance, and membrane-cytoskeleton interactions, which are critical for cellular integrity and intracellular transport processes.