Recombinant MTEF2 protein (His tag)

Catalog Number	542790
Synonyms	Mitochondrial transcription termination factor 2; mTERF2; Mitochondrial transcription termination factor-like protein; mTERF-like; mTERFL; mTERF domain-containing protein 3, mitochondrial
Species	Human
Expression System	E. coli
Accession	Q49AM1
Molecular Weight	Predictes a molecular mass of 41.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	43-385
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 43-385 aa (Q49AM1) 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 recombinant fragment of the human mitochondrial transcription termination factor 2 (mTERF2), encompassing residues 43-385. It is designed for structural and biochemical studies, offering a stable and soluble unit ideal for investigating mitochondrial gene regulation mechanisms. The full-length mitochondrial transcription termination factor 2 (mTERF2) is a key regulatory protein that binds mitochondrial DNA and modulates the transcription of mitochondrial mRNA and rRNA species. It localizes to the mitochondrion, specifically within the matrix and nucleoid, where it plays a critical role in maintaining mitochondrial gene expression and function. This protein is essential for understanding mitochondrial biology and its implications in cellular energy production and disease.