Recombinant MTEF3 protein (His tag)

Catalog Number	545664
Synonyms	Mitochondrial transcription termination factor 3; mTERF3; mTERF domain-containing protein 1, mitochondrial
Species	Human
Expression System	E. coli
Accession	Q96E29
Molecular Weight	Predictes a molecular mass of 35.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	123-417
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 123-417 aa (Q96E29) 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 MTERF3 (123-417) is a high-quality protein fragment of Transcription termination factor 3, mitochondrial, designed for structural and biochemical studies. This 295-amino acid fragment represents a stable, soluble unit ideal for investigating mitochondrial transcription regulation and ribosome assembly mechanisms. Transcription termination factor 3, mitochondrial (mTERF3) is a crucial regulatory protein localized within the mitochondrion. It binds promoter DNA to regulate transcription initiation and is essential for normal mitochondrial transcription, translation, and respiratory complex assembly. MTERF3 maintains 16S rRNA levels and facilitates mitochondrial ribosome biogenesis by regulating the formation of the 39S ribosomal subunit, playing a fundamental role in mitochondrial function and energy production.