Recombinant TEFM protein (His tag)

Catalog Number	541061
Species	Human
Expression System	E. coli
Accession	Q96QE5
Molecular Weight	Predictes a molecular mass of 36.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	60-360
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 60-360 aa (Q96QE5) 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 Transcription elongation factor, mitochondrial (TEFM) fragment (residues 60-360) is a highly soluble and stable protein unit designed for structural and biochemical studies. This fragment supports research into mitochondrial transcription elongation and oxidative phosphorylation regulation. Transcription elongation factor, mitochondrial (TEFM) enhances mitochondrial RNA polymerase processivity and regulates transcription of the mitochondrial genome, including genes critical for oxidative phosphorylation machinery. It localizes to the mitochondrial matrix and nucleoid, playing a key role in mitochondrial gene expression essential for cellular energy production.