Recombinant COXM1 protein (His tag)

Catalog Number	550682
Synonyms	Cmc1p
Species	Human
Expression System	E. coli
Accession	Q7Z7K0
Molecular Weight	Predictes a molecular mass of 14.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	2-106
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 2-106 aa (Q7Z7K0) 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 COX assembly mitochondrial protein homolog (Cmc1p) fragment (amino acids 2-106) is a high-purity protein designed for studying the CHCH domain's role in cytochrome c oxidase assembly. This fragment serves as an essential tool for investigating mitochondrial respiratory chain regulation and protein complex formation. The full-length Cmc1p protein, encoded by the CMC1 gene in Homo sapiens, functions as a critical component of the MITRAC complex, which regulates cytochrome c oxidase assembly—a key process in mitochondrial oxidative phosphorylation. Located exclusively in the mitochondrion and colocalizing with MT-CO1, this protein ensures proper assembly of Complex IV in the electron transport chain. The provided fragment encompasses the complete CHCH functional domain, enabling targeted research into domain-specific mechanisms of mitochondrial protein complex regulation and respiratory function.