Recombinant MTFR1 protein (His tag)

Catalog Number	549211
Synonyms	Chondrocyte protein with a poly-proline region
Species	Human
Expression System	E. coli
Accession	Q15390
Molecular Weight	Predictes a molecular mass of 23.52 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	135-333
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 135-333 aa (Q15390) 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 Mitochondrial Fission Regulator 1 (MTFR1) Fragment (aa 135-333) is a high-purity protein designed for structural and functional studies. This 199-amino acid fragment represents a stable and soluble domain, ideal for investigating mitochondrial dynamics and energy metabolism. Mitochondrial fission regulator 1 (MTFR1) is a human protein implicated in mitochondrial aerobic respiration and the regulation of mitochondrial organization and fission. It localizes to the mitochondrion, potentially associating with both inner and outer membranes, where it contributes to maintaining mitochondrial morphology and metabolic efficiency. The selected fragment (aa 135-333) was computationally optimized for stability and solubility, enabling robust experimental analysis of MTFR1's role in cellular energy homeostasis and organelle dynamics.