Recombinant MIC27 protein (His tag)

Catalog Number	547541
Synonyms	Apolipoprotein O-like; Protein FAM121A
Species	Human
Expression System	E. coli
Accession	Q6UXV4
Molecular Weight	Predictes a molecular mass of 9.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	41-110
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 41-110 aa (Q6UXV4) 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 MICOS complex subunit MIC27 (APOOL) fragment (residues 41-110) is a high-purity protein product designed for structural and biochemical studies. This 70-amino acid fragment represents a stable, soluble region of the mitochondrial inner membrane protein, ideal for investigating crista junction formation and mitochondrial membrane architecture. The full-length MICOS complex subunit MIC27 (APOOL) is a crucial component of the mitochondrial inner membrane MICOS complex, which maintains crista junctions, inner membrane architecture, and contact sites with the outer membrane. It specifically binds cardiolipin and plays an essential role in crista junction formation and mitochondrial function. The protein is localized to the mitochondrial inner membrane as a multi-pass membrane protein, underscoring its importance in mitochondrial structural integrity and cellular energy metabolism.