Recombinant ATPF1 protein (His tag)

Catalog Number	548709
Synonyms	ATP11 homolog
Species	Human
Expression System	E. coli
Accession	Q5TC12
Molecular Weight	Predictes a molecular mass of 31.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 33 kDa band.

Product Information

Sequence Region	67-328
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 67-328 aa (Q5TC12) 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 ATP synthase mitochondrial F1 complex assembly factor 1 (ATP11 homolog, residues 67-328) is a high-quality protein fragment designed for structural and biochemical studies. This 262-amino acid segment, derived from human ATPAF1, offers a stable and soluble unit ideal for investigating mitochondrial F1-F0 complex assembly mechanisms. The full-length ATPAF1 protein plays a critical role in mitochondrial function by exhibiting complex stabilizing activity during the assembly of the mitochondrial F1-F0 ATP synthase complex. Located in the mitochondrial inner membrane as a peripheral membrane protein, ATPAF1 ensures proper formation of this essential energy-producing machinery. The protein's assembly factor function is conserved across species, highlighting its fundamental importance in cellular energy metabolism.