Recombinant ATPF2 protein (His tag)

Catalog Number	543145
Synonyms	ATP12 homolog
Species	Human
Expression System	E. coli
Accession	Q8N5M1
Molecular Weight	Predictes a molecular mass of 29.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 31 kDa band.

Product Information

Sequence Region	44-289
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 44-289 aa (Q8N5M1) 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 ATPAF2 (ATP12 homolog) Fragment (44-289) - A high-quality recombinant protein representing a stable and soluble fragment of ATP synthase mitochondrial F1 complex assembly factor 2, specifically designed for structural and biochemical studies of mitochondrial ATP synthase assembly mechanisms. The full-length ATP synthase mitochondrial F1 complex assembly factor 2 (ATP12 homolog) plays a critical role in the assembly of the F1 component of the mitochondrial ATP synthase complex, which is essential for cellular energy production. This protein is localized to the mitochondrial inner membrane as a peripheral membrane protein, where it facilitates the proper assembly and function of the ATP synthase machinery. The F1 complex is responsible for ATP synthesis through oxidative phosphorylation, making ATPAF2 a key factor in mitochondrial energy metabolism and cellular bioenergetics.