Recombinant COA8 protein (His tag)

Catalog Number	538720
Synonyms	COA8; Apoptogenic protein 1, mitochondrial; APOP-1
Species	Human
Expression System	E. coli
Accession	Q96IL0
Molecular Weight	Predictes a molecular mass of 19.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	60-206
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 60-206 aa (Q96IL0) 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 Cytochrome c oxidase assembly factor 8 (COA8) fragment (residues 60-206) is a high-quality protein product designed for structural and biochemical studies. This 147-amino acid fragment represents a stable, soluble unit of COA8, optimized for research into mitochondrial respiratory chain assembly and function. Cytochrome c oxidase assembly factor 8 (COA8), also known as Apoptogenic protein 1 (APOP-1), is essential for the assembly and function of cytochrome c oxidase complex (COX) IV, the terminal component of the mitochondrial respiratory chain. It protects COX assembly from oxidation-induced degradation, playing a critical role in maintaining mitochondrial energy production. COA8 localizes to the mitochondrial inner membrane as a peripheral membrane protein on the matrix side, where it performs its protective function in the oxidative environment of the mitochondrial respiratory chain.