

Recombinant Human COQ7 (C-6His)

Catalog No: C591

Description	Recombinant Human 5-demethoxyubiquinone hydroxylase, mitochondrial is produced by our Mammalian expression system and the target gene encoding Ser37-Leu217 is expressed with a 6His tag at the C- terminus.
Source	Human Cells
Alternative name	Ubiquinone Biosynthesis Protein COQ7 Homolog; Coenzyme Q Biosynthesis Protein 7 Homolog; Timing Protein Clk-1 Homolog; COQ7
Accession No.	Q99807
Predicted Molecular Weight	21.34kDa
AP Molecular Weight	19-22kDa, reducing conditions.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Reconstitution	<p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Quality Control	<p>Purity: Greater than 95% as determined by reducing SDS-PAGE.</p> <p>Endotoxin: Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.</p>
Shipping	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
Storage	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>
Background	<p>Ubiquinone Biosynthesis Protein COQ7 Homolog (COQ7) is a mitochondrion inner membrane and peripheral membrane protein which belongs to the COQ7 family. It is expressed dominantly in heart and skeletal muscle. COQ7 is synthesized as a preprotein that is imported into the mitochondrial matrix, where the sequence is cleaved off and the mature protein becomes loosely associated with the inner membrane. COQ7 is involved in lifespan determination in ubiquinone-independent manner and also involved in ubiquinone biosynthesis. COQ7 is potential central metabolic regulator. Human COQ7 protein contains 179 amino acids, is mostly helical, and contains an alpha-helical membrane insertion. It has been shown that mutations in the gene are associated with increased life span. Defects of the gene slow down a variety of developmental and physiological processes, including the cell cycle, embryogenesis, post-embryonic growth, rhythmic behaviors and aging.</p>