

Product datasheet for **TP726823**

COQ7 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human 5-Demethoxyubiquinone Hydroxylase, Mitochondrial/COQ7 (C-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ser37-Leu217
Tag:	C-His
Buffer:	Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH 7.4.
Note:	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.
Storage:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Stability:	12 months from date of despatch
Locus ID:	10229
UniProt ID:	Q99807
Synonyms:	Ubiquinone Biosynthesis Protein COQ7 Homolog; Coenzyme Q Biosynthesis Protein 7 Homolog; Timing Protein Clk-1 Homolog; COQ7
Summary:	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.



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Protein Pathways: Metabolic pathways, Ubiquinone and other terpenoid-quinone biosynthesis