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Datasheet for ABIN1096428
Coq7 Protein (AA 37-217) (His tag)

Overview

Quantity:	50 µg
Target:	Coq7
Protein Characteristics:	AA 37-217
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Coq7 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human 5-Demethoxyubiquinone Hydroxylase, Mitochondrial/COQ7 (C-6His)
Sequence:	SGMTLDNISR AAVDRIIRVD HAGEYGANRI YAGQMAVLGR TSVGPIQKM WDQEKDHLKK FNELMVTRFV RPTVLMPLWN VLGFGALGAGT ALLGKEGAMA CTVAVEESIA HHYNNQIRTL MEEDPEKYEE LLQLIKKFRD EEEHHDIGL DHDAELAPAY AVLKSIIQAG CRVAIYLSER LVDHHHHHH
Characteristics:	Recombinant Human Ubiquinone Biosynthesis Protein COQ7 Homolog/COQ7 is produced with our mammalian expression system in human cells. The target protein is expressed with sequence (Ser37-Leu217) of Human COQ7 fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	Coq7
Alternative Name:	coq7 (Coq7 Products)
Sub Type:	Fusionprotein
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> <p>Alternative Names: Ubiquinone Biosynthesis Protein COQ7 Homolog, Coenzyme Q Biosynthesis Protein 7 Homolog, Timing Protein Clk-1 Homolog, COQ7</p>
Molecular Weight:	21.3 kDa
UniProt:	Q99807
Pathways:	Tube Formation

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH₂O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C

Handling

Storage Comment: 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.

Expiry Date: 3 months