

Recombinant Mouse Uqcrh Protein, Myc/DDK-tagged

Cat. No. Uqcrh-6853M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ubiquinol-cytochrome c reductase hinge protein (Uqcrh), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Component of the ubiquinol-cytochrome c oxidoreductase, a multisubunit transmembrane complex that is part of the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol-cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the ATP synthase. The cytochrome b-c1 complex catalyzes electron transfer from ubiquinol to cytochrome c, linking this redox reaction to translocation of protons across the mitochondrial inner membrane, with protons being carried across the membrane as hydrogens on the quinol. In the process called Q cycle, 2 protons are consumed from the matrix, 4 protons are released into the intermembrane space and 2 electrons are passed to cytochrome c.
Molecular Mass	10.4 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Uqcrrh ubiquinol-cytochrome c reductase hinge protein [Mus musculus (house mouse)]
Official Symbol	Uqcrrh
Synonyms	UQCRH; ubiquinol-cytochrome c reductase hinge protein; cytochrome b-c1 complex subunit 6, mitochondrial; complex III subunit 6; complex III subunit VIII; mitochondrial hinge protein; cytochrome C1, nonheme 11 kDa protein; cytochrome c1 non-heme 11 kDa protein; ubiquinol cytochrome c reductase hinge protein; ubiquinol-cytochrome c reductase complex 11 kDa protein; 2210416J04Rik; 2310021J10Rik; 2610041P16Rik
Gene ID	66576
mRNA Refseq	NM_025641
Protein Refseq	NP_079917
UniProt ID	P99028

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