

**UQCRQ Blocking Peptide (N-term)**

Synthetic peptide

Catalog # BP20755a

**Specification**

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**UQCRQ Blocking Peptide (N-term) - Product Information**

Primary Accession

[O14949](#)**UQCRQ Blocking Peptide (N-term) - Additional Information**

Gene ID 27089

**Other Names**

Cytochrome b-c1 complex subunit 8, Complex III subunit 8, Complex III subunit VIII, Ubiquinol-cytochrome c reductase complex 95 kDa protein, Ubiquinol-cytochrome c reductase complex ubiquinone-binding protein QP-C, UQCRQ

**Target/Specificity**

The synthetic peptide sequence is selected from aa 13-21 of HUMAN UQCRQ

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**UQCRQ Blocking Peptide (N-term) - Protein Information**

Name UQCRQ

**Function**

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.

**Cellular Location**

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P08525}; Single-pass membrane protein {ECO:0000250|UniProtKB:P08525}

**UQCQRQ Blocking Peptide (N-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**UQCQRQ Blocking Peptide (N-term) - Images****UQCQRQ Blocking Peptide (N-term) - Background**

This is a component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is part of the mitochondrial respiratory chain. This subunit, together with cytochrome b, binds to ubiquinone.

**UQCQRQ Blocking Peptide (N-term) - References**

Fujiwara T., et al. Submitted (NOV-1997) to the EMBL/GenBank/DDBJ databases.  
Schaegger H., et al. Methods Enzymol. 260:82-96(1995).  
Burkard T.R., et al. BMC Syst. Biol. 5:17-17(2011).  
Barel O., et al. Am. J. Hum. Genet. 82:1211-1216(2008).