

**SDHB Blocking Peptide (C-term)**

Synthetic peptide

Catalog # BP19974b

**Specification**

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**SDHB Blocking Peptide (C-term) - Product Information**

Primary Accession

[P21912](#)

Other Accession

[Q007T0](#), [Q9COA3](#), [Q3T189](#), [NP\\_002991.2](#)**SDHB Blocking Peptide (C-term) - Additional Information**

Gene ID 6390

**Other Names**

Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial, Iron-sulfur subunit of complex II, Ip, SDHB, SDH, SDH1

**Target/Specificity**

The synthetic peptide sequence is selected from aa 220-234 of HUMAN SDHB

**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.

**SDHB Blocking Peptide (C-term) - Protein Information**

Name SDHB

Synonyms SDH, SDH1

**Function**

Iron-sulfur protein (IP) subunit of the succinate dehydrogenase complex (mitochondrial respiratory chain complex II), responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).

**Cellular Location**

Mitochondrion inner membrane {ECO:0000250|UniProtKB:Q9YHT2}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q9YHT2}; Matrix side {ECO:0000250|UniProtKB:Q9YHT2}

**SDHB Blocking Peptide (C-term) - Protocols**

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

- [Blocking Peptides](#)

#### **SDHB Blocking Peptide (C-term) - Images**

#### **SDHB Blocking Peptide (C-term) - Background**

Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Sporadic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and support a link between mitochondrial dysfunction and tumorigenesis.

#### **SDHB Blocking Peptide (C-term) - References**

Shimada, M., et al. Hum. Genet. 128(4):433-441(2010)  
Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)  
Cerecer-Gil, N.Y., et al. Clin. Cancer Res. 16(16):4148-4154(2010)  
Schimke, R.N., et al. Am. J. Med. Genet. A 152A (6), 1531-1535 (2010) :  
Hes, F.J., et al. BMC Med. Genet. 11, 92 (2010) :