

**COX6B2 Blocking Peptide (N-term)**

Synthetic peptide  
Catalog # BP5421a

**Specification**

---

**COX6B2 Blocking Peptide (N-term) - Product Information**

Primary Accession [O6YFO2](#)  
Other Accession [NP\\_653214.2](#)

**COX6B2 Blocking Peptide (N-term) - Additional Information**

Gene ID 125965

**Other Names**

Cytochrome c oxidase subunit 6B2, Cancer/testis antigen 59, CT59, Cytochrome c oxidase subunit VIb isoform 2, COX VIb-2, Cytochrome c oxidase subunit VIb, testis-specific isoform, COX6B2

**Target/Specificity**

The synthetic peptide sequence is selected from aa 18-31 of HUMAN COX6B2

**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.

**COX6B2 Blocking Peptide (N-term) - Protein Information**

Name COX6B2

**Function**

Component of the cytochrome c oxidase, the last enzyme in 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. Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix.

**Cellular Location**

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P00429}; Peripheral membrane protein {ECO:0000250|UniProtKB:P00429}; Intermembrane side {ECO:0000250|UniProtKB:P00429}

**Tissue Location**

Testis specific. Weak expression in thymus and heart. Expressed in cancer cell lines.

**COX6B2 Blocking Peptide (N-term) - Protocols**

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

- [Blocking Peptides](#)

**COX6B2 Blocking Peptide (N-term) - Images****COX6B2 Blocking Peptide (N-term) - References**

Huttemann, M., et al. Mol. Reprod. Dev. 66(1):8-16(2003)  
Huttemann, M., et al. Mol. Reprod. Dev. 66(1):8-16(2003)  
Taanman, J.W., et al. Gene 93(2):285-291(1990)