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COX6B2 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP5421a

Specification

COX6B2 Blocking Peptide (N-term) - Product Information

Primary Accession	Q6YFQ2
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)