

MT-ND1 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP20750a**Specification**

MT-ND1 Blocking Peptide (N-term) - Product Information

Primary Accession [P03886](#)
Other Accession [O79874](#), [P03887](#), [O78747](#)

MT-ND1 Blocking Peptide (N-term) - Additional Information

Gene ID 4535

Other Names

NADH-ubiquinone oxidoreductase chain 1, NADH dehydrogenase subunit 1, MT-ND1, MTND1, NADH1, ND1

Target/Specificity

The synthetic peptide sequence is selected from aa 34-48 of HUMAN MT-ND1

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.

MT-ND1 Blocking Peptide (N-term) - Protein Information

Name MT-ND1

Synonyms MTND1, NADH1, ND1

Function

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:1959619). Essential for the catalytic activity and assembly of complex I (PubMed:26929434, PubMed:1959619).

Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P03887}; Multi-pass membrane protein

MT-ND1 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

MT-ND1 Blocking Peptide (N-term) - Images

MT-ND1 Blocking Peptide (N-term) - Background

Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (By similarity).

MT-ND1 Blocking Peptide (N-term) - References

Anderson S.,et al.Nature 290:457-465(1981).
Horai S.,et al.Proc. Natl. Acad. Sci. U.S.A. 92:532-536(1995).
Moilanen J.S.,et al.Mol. Biol. Evol. 20:2132-2142(2003).
Ingman M.,et al.Nature 408:708-713(2000).
Ingman M.,et al.Genome Res. 13:1600-1606(2003).