

NDUFV1 Blocking Peptide (N-term)
Synthetic peptide
Catalog # BP21814a**Specification**

NDUFV1 Blocking Peptide (N-term) - Product InformationPrimary Accession [P49821](#)**NDUFV1 Blocking Peptide (N-term) - Additional Information**

Gene ID 4723

Other Names

NADH dehydrogenase [ubiquinone] flavoprotein 1, mitochondrial, Complex I-51kD, CI-51kD, NADH dehydrogenase flavoprotein 1, NADH-ubiquinone oxidoreductase 51 kDa subunit, NDUFV1, UQOR1

Target/Specificity

The synthetic peptide sequence is selected from aa 22-36 of HUMAN NDUFV1

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.

NDUFV1 Blocking Peptide (N-term) - Protein InformationName NDUFV1 ([HGNC:7716](#))

Synonyms UQOR1

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:28844695). Part of the peripheral arm of the enzyme, where the electrons from NADH are accepted by flavin mononucleotide (FMN) and then passed along a chain of iron-sulfur clusters by electron tunnelling to the final acceptor ubiquinone (PubMed:28844695). Contains FMN, which is the initial electron acceptor as well as one iron-sulfur cluster (PubMed:28844695).

Cellular Location

Mitochondrion inner membrane {ECO:0000250|UniProtKB:P25708}; Peripheral membrane protein

{ECO:0000250|UniProtKB:P25708}; Matrix side {ECO:0000250|UniProtKB:P25708}

NDUFV1 Blocking Peptide (N-term) - Protocols

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

- [Blocking Peptides](#)

NDUFV1 Blocking Peptide (N-term) - Images

NDUFV1 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).

NDUFV1 Blocking Peptide (N-term) - References

de Coo R.F.M.,et al.Mamm. Genome 10:49-53(1999).
Schuelke M.,et al.Biochem. Biophys. Res. Commun. 245:599-606(1998).
Hu R.-M.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9543-9548(2000).
Ebert L.,et al.Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.
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