

NDUFV1 Blocking Peptide (Center)
Synthetic peptide
Catalog # BP21746c**Specification**

NDUFV1 Blocking Peptide (Center) - Product InformationPrimary Accession [P49821](#)**NDUFV1 Blocking Peptide (Center) - 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 214-226 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 (Center) - Protein Information**Name** 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 (Center) - Protocols

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

- [Blocking Peptides](#)

NDUFV1 Blocking Peptide (Center) - Images

NDUFV1 Blocking Peptide (Center) - 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 (Center) - 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.
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.