

NADH-ubiquinone oxidoreductase chain 6 (ND6) (nad6), Recombinant Protein

Cat *RP00363*

Species

Arabidopsis thaliana (Mouse-ear cress)

Full Product Name

Recombinant *Arabidopsis thaliana* NADH-ubiquinone oxidoreductase chain 6 (ND6)

Product Synonym Names

Recombinant NADH-ubiquinone oxidoreductase chain 6 (ND6); NADH-ubiquinone oxidoreductase chain 6 EC=1.6.5.3; NADH dehydrogenase subunit 6

Product Gene Name

nad6 recombinant protein

Product Synonym Gene Name

ND6; NAD6

Purity

Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)

Sequence

MILSVLSSLA LVSGLMVVRA KNPVHSLVFF ILVFCDTSG LLLLGLDFFA MIFLVVYIGA IAVLFLFVVM
MFHIQIAEIH EEVRLYLPVS GIIGLIFWWE MFFILDNESI PLLPTQRNTT SLRYTVYAGK VRSWTNLET L
GNLLYTTYFV WFLVPSLILL VAMIGAI VLT MHRRTTKVKRQ DVFRRNAIDF RRTIMRRTTD PLTIY

Sequence Positions

1-205

Chromosome Location

Chromosome: MT; NC_001284.2 (76642..77259, complement)

Format

Lyophilized or liquid (Format to be determined during the manufacturing process)

Host

E Coli or Yeast or Baculovirus or Mammalian Cell

Molecular Weight

23,680 Da

Storage

Store at -20°C. For extended storage, store at -20 or -80°C.

NCBI Accession

NP_085495.1

NCBI GI

13449312

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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NCBI GenBank Nucleotide

NC_001284.2

NCBI GeneID

814580

NCBI Official Full Name

NADH dehydrogenase subunit 6

NCBI Official Symbol

nad6

NCBI Protein Information

NADH dehydrogenase subunit 6

UniProt Gene Name

ND6

UniProt Synonym Gene Names

NAD6

UniProt Protein Name

NADH-ubiquinone oxidoreductase chain 6

UniProt Synonym Protein Names

NADH dehydrogenase subunit 6

UniProt Entry Name

NU6M_ARATH

UniProt Primary Accession

P60497

UniProt Secondary Accession

Q01825; A7KNH9

UniProt Related Accession

CAA69769

UniProt Comments

Function: 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. Catalytic activity: NADH + ubiquinone = NAD⁺ + ubiquinol. Subunit structure: Complex I is composed of at least 49 different subunits. Subcellular location: Mitochondrion membrane; Multi-pass membrane protein. Potential. Miscellaneous: A stretch of 270 kb of the mitochondrial genome is duplicated within the centromere of chromosome 2 resulting in the duplication of the gene. The expression of the duplicated gene

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(At2g07731) is not demonstrated. It is also probably not RNA edited and therefore differs in all the positions known to be edited. Sequence similarities: Belongs to the complex I subunit 6 family. RNA editing: Edited at positions 9, 18, 30, 32, 35, 54, 57, 64 and 149.

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