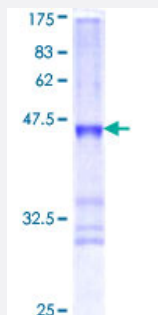


NDUFS4 (Human) Recombinant Protein (Q01)

Catalog # H00004724-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human NDUFS4 partial ORF (NP_002486, 66 a.a. - 175 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	GVPEEHIKTRKVRIFVPARNNMQSGVNNTKKWKMEFDTRERWENPLMGWASTADPLSNMVLTF STKEDAVSFAEKNQWSYDIEERKVPKPKSKSYGANFSWNKTRVSTK
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NDUFS4

Entrez GeneID	4724
GeneBank Accession#	NM_002495
Protein Accession#	NP_002486
Gene Name	NDUFS4
Gene Alias	AQDQ
Gene Description	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18kDa (NADH-coenzyme Q reductase)
Omim ID	252010 256000 602694
Gene Ontology	Hyperlink
Gene Summary	This gene encodes an accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), or NADH:ubiquinone oxidoreductase, the first multi-subunit enzyme complex of the mitochondrial respiratory chain. Complex I plays a vital role in cellular ATP production, the primary source of energy for many crucial processes in living cells. It removes electrons from NADH and passes them by a series of different protein-coupled redox centers to the electron acceptor ubiquinone. In well-coupled mitochondria, the electron flux leads to ATP generation via the building of a proton gradient across the inner membrane. Complex I is composed of at least 41 subunits, of which 7 are encoded by the mitochondrial genome and the remainder by nuclear genes. [provided by RefSeq]
Other Designations	NADH dehydrogenase (ubiquinone) Fe-S protein 4 NADH dehydrogenase (ubiquinone) iron-sulfur protein 4 NADH-coenzyme Q reductase, 18-KD NADH-ubiquinone oxidoreductase 18 kDa subunit mitochondrial respiratory chain complex I (18-KD subunit)

Pathway

- [Metabolic pathways](#)

- [Oxidative phosphorylation](#)

Disease

- [Alzheimer disease](#)
- [Cognition](#)
- [Genetic Predisposition to Disease](#)
- [Prostatic Neoplasms](#)