

NAD(P)H Dehydrogenase Quinone 1 Recombinant Protein | NQO1 recombinant protein

Recombinant Human NAD(P)H Dehydrogenase Quinone 1

CATALOG # AAA38719	HOST E Coli
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PRODUCT SYNONYMS

NAD(P)H Dehydrogenase Quinone 1; Recombinant Human NAD(P)H Dehydrogenase Quinone 1; NQO1 Human; NAD(P)H Dehydrogenase Quinone 1 Human Recombinant; NAD(P)H dehydrogenase (quinone) 1; Quinone reductase 1; QR1; NAD(P)H:quinone oxidoreductase 1; DT-diaphorase; DTD; Azoreductase; Phyloquinone reductase; Menadione reductase; NQO1; DIA4; NMOR1; DHQU; NMORI; NQO1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by SDS-PAGE.
Form/Format	The NQO1 solution contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 1mM DTT. Sterile Filtered colorless solution.
Concentration	1 mg/ml (varies by lot)
Sequence	MGSSHHH HHHSSGLVPR GSHMVG RRALIVLAHS ERTSFNYAMK EAAAAALKKK GWEVVESDLY AMNFNPIISR KDITGKLKDP ANFYQPAESV LAYKEGHLSP DIVAEQKKLE AADLVIFQFP LQWFGVPAIL KGWFERVFIG EFAYTYAAMY DKGPFRRSKA VLSITTGGSG SMYSLQGIHG DMNVILWPIQ SGILHFCGFQ VLEPQLTYSI GHTPADARIQ ILEGWKKRLE NIWDETPLYF APSSLFDLNF QAGFLMKKEV QDEEKNKKFG LSVGHHLGKS IPTDNQIKAR K
Sequence Length	274
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for NQO1 recombinant protein	Description: NQO1 Human Recombinant fused with 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated, polypeptide chain containing 294 amino acids (1-274 a.a.) and having a molecular mass of 33kDa. The NQO1 is purified by proprietary chromatographic techniques. Introduction: NQO1 belongs to the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. NQO1 acts as an imperative part of cellular antioxidant defense by detoxifying quinines therefore preventing the formation of reactive oxygen species. It seems that NQO1 serves as a quinone reductase relating to conjugation reactions of hydroquinones involved in detoxification pathways in addition to biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis. Altered NQO1 expression is seen in many tumors and also linked to Alzheimer's disease. NQO1 gene mutations are linked to tardive dyskinesia which is an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer.
Product Categories/Family for NQO1 recombinant protein	Enzymes; Dehydrogenase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505415
NCBI GeneID	1728

NCBI Accession #	NP_000894.1
NCBI GenBank Nucleotide #	NM_000903.2
UniProt Accession #	P15559 ; Q86UK1 ; B2R5Y9 ; B4DNM7 ; B7ZAD1
Molecular Weight	26,365 Da
NCBI Official Full Name	NAD(P)H dehydrogenase
NCBI Official Synonym Full Names	NAD(P)H dehydrogenase, quinone 1
NCBI Official Symbol	NQO1
NCBI Official Synonym Symbols	DTD; QR1; DHQU; DIA4; NMOR1; NMORI
NCBI Protein Information	NAD(P)H dehydrogenase [quinone] 1; NAD(P)H dehydrogenase [quinone] 1; DT-diaphorase; NAD(P)H:Quinone acceptor oxidoreductase type 1; NAD(P)H:menadione oxidoreductase 1; NAD(P)H:quinone oxidoreductase 1; NAD(P)H:quinone oxidoreductase; azoreductase; diaphorase (NADH/NADPH) (cytochrome b-5 reductase); diaphorase-4; dioxin-inducible 1; menadione reductase; phyloquinone reductase; quinone reductase 1
UniProt Protein Name	NAD(P)H dehydrogenase [quinone] 1
UniProt Gene Name	NQO1
UniProt Synonym Gene Names	DIA4; NMOR1; DTD; QR1
UniProt Entry Name	NQO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/nqo1-recombinant-protein-e-coli/38719>