

# Recombinant Human NAD(P)H Dehydrogenase, Quinone 2, His-tagged

**Cat. No.** NQO2-2055H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human NQO2 protein fused to His-tag was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 28.1 kDa (251aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	NQO2 is a member of the NAD(P)H dehydrogenase (quinone). The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinones involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis. It is flavoproteins that catalyze the metabolic detoxification of quinones and their derivatives to hydroquinones. This detoxification process protects cells against quinone-induced oxidative stress, cytotoxicity and mutagenicity.
<b>Form</b>	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT.
<b>Purity</b>	> 95% by SDS - PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequences Of Amino Acids</b>	MGSSHHHHH SSGLVPRGSH MAGKKVLIVY AHQEPKSFNG SLKNVAVDEL SRQGCTVTVS DLYAMNFEPR ATDKDITGTL SNPEVFNYGV ETHEAYKQRS

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LASDITDEQK KVREADLVIF QFPLYWFSVP AILKGWMDRV LCQGFAFDIP  
 GFYDSGLLQG KLALLSVTTG GTAEMYTKTG VNGDSRYFLW PLQHGLTHFC  
 GFKVLAPQIS FAPEIASEEE RKGMVAAWSQ RLQTIWKEEP IPCTAHWHFG Q.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**

**Gene Name**

NQO2 NAD(P)H dehydrogenase, quinone 2 [ Homo sapiens ]

**Synonyms**

NAD(P)H dehydrogenase, quinone 2; QR2; DHQV; DIA6; NMOR2; NQO2; ribosyldihyronicotinamide dehydrogenase; quinone reductase 2; NRH:quinone oxidoreductase 2; NRH dehydrogenase [quinone] 2; NAD(P)H menadione oxidoreductase 2, dioxin-inducible; NAD(P)H menadione oxidoreductase-1, dioxin-inducible-2; OTTHUMP00000015953; OTTHUMP00000015949; Quinone reductase 2; EC 1.10.99.2

**Gene ID**

4835

**mRNA Refseq**

NM\_000904

**Protein Refseq**

NP\_000895

**MIM**

160998

**UniProt ID**

P16083

**Chromosome Location**

6pter-q12

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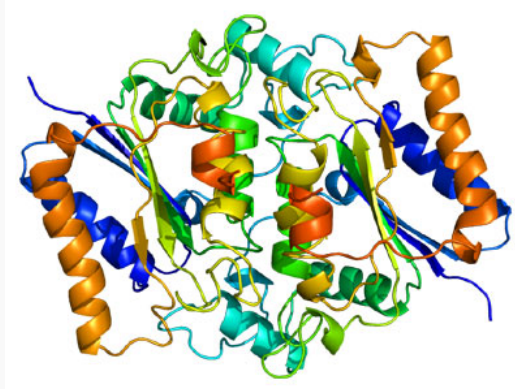
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**Function**

NADPH dehydrogenase (quinone) activity; coenzyme binding; dihydronicotinamide riboside quinone reductase activity; electron carrier activity; metal ion binding

PDB rendering based  
on 1qr2.



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