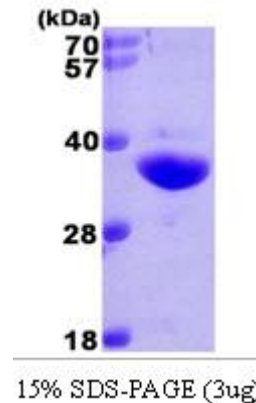


## NQO1, human recombinant

<b>CATALOG NO:</b>	7571-10	10 µg
	7571-50	50 µg
<b>ALTERNATE NAMES:</b>	NAD(P)H Dehydrogenase (Quinine) 1 (NQO1); Quinone Reductase 1 (QR1); DT-Diaphorase (DTD); Azoreductase; Phylloquinone Reductase; Menadione Reductase; Dioxin-inducible 1; Disphorase-4 (DIA4); NAD(P)H Quinone Oxireductase; Quinone Oxidoreductase 1, DHQU, DIA4, DTD, NMOR1, NMORI, QR1, Azoreductase, Quinone reductase 1, DT-diaphorase	
<b>CONCENTRATION:</b>	1 mg/ml (determined by Bradford assay)	
<b>SOURCE:</b>	NQO1 recombinant protein was expressed in <i>E.coli</i> and fused to His-tag at N-terminus (1-274aa)	
<b>PURITY:</b>	> 95% by SDS-PAGE	
<b>MOL. WEIGHT:</b>	This protein is fused with 6x His tag at N terminus and the protein has a calculated MW of 33.0 kDa (294aa), confirmed by MALDI-TOF	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein (determined by LAL method)	
<b>FORM:</b>	Liquid	
<b>FORMULATION:</b>	In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT	
<b>STORAGE CONDITIONS:</b>	Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid repeated freeze/thaw cycles.	
<b>SEQUENCE:</b>	<p><u>MGSSHHHHHH SSSLVPRGSH</u> MVGRRALIVL AHSERTSFNY            AMKEAAAAAL KKKGWEEVES DLYAMNFNPI ISRKIDITGKL            KDPANFQYPA ESVLAYKEGH LSPDIVAEQK KLEAADLVIF            QFPLQWFGVP AILKGWFERV FIGEFAYTYA AMYDKGPFERS            KKAVLSITTG GSGSMYSLQG IHGDMNVILW PIQSGILHFC            GFQVLEPQLT YSIGHTPADA RIQILEGWKK RLENIWDETP            LYFAPSSLFD LNFQAGFLMK KEVQDEEKNK            KFGLSVGHHL GKSIPTDNQI KARK</p>	
<b>DESCRIPTION:</b>	NQO1 is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This protein 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. NQO1 functions as an important part of cellular antioxidant defense by detoxifying quinines thus preventing the formation of reactive oxygen species. Altered expression of NQO1 has been seen in many tumors and is also associated with Alzheimer's disease (AD).	



Human recombinant NQO1

### RELATED PRODUCT:

- NMNAT1, human recombinant (Cat. No. 7561-10, -50)
- NMNAT3, human recombinant (Cat. No. 7562-10, -50)
- NAD/NADH Quantitation Colorimetric Kit (Cat. No. K337-100)
- NADP/NADPH Quantitation Colorimetric Kit (Cat. No. K347-100)
- PicoProbe™ NADH Fluorometric Assay Kit (Cat. No. K338-100)
- PicoProbe™ NADPH Quantitation Fluorometric Assay Kit (Cat. No. K349-100)
- NAD Kinase (catalytic domain), human recombinant (Cat. No. 7559-10)
- NAD Kinase, human recombinant (Cat. No. 7560-10)

**FOR RESEARCH USE ONLY! Not to be used on humans.**