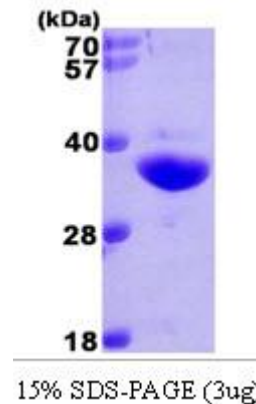


NQO1, human recombinant

CATALOG NO:	7571-10	10 µg
	7571-50	50 µg
ALTERNATE NAMES:	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	
CONCENTRATION:	1 mg/ml (determined by Bradford assay)	
SOURCE:	NQO1 recombinant protein was expressed in <i>E.coli</i> and fused to His-tag at N-terminus (1-274aa)	
PURITY:	> 95% by SDS-PAGE	
MOL. WEIGHT:	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	
ENDOTOXIN LEVEL:	< 1.0 EU per 1 µg of protein (determined by LAL method)	
FORM:	Liquid	
FORMULATION:	In 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 1mM DTT	
STORAGE CONDITIONS:	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.	
SEQUENCE:	<p><u>MGSSHHHHHH SSSLVPRGSH</u> MVGRRALIVL AHSERTSFNY AMKEAAAAAL KKKGWEEVES DLYAMNFNPI ISRKIDITGKL KDPANFQYPA ESVLAYKEGH LSPDIVAEQK KLEAADLVIF QFPLQWFGVP AILKGWFERV FIGEFAYTYA AMYDKGPFRS KKAVLSITTG GSGSMYSLQG IHGDMNVILW PIQSGILHFC GFQVLEPQLT YSIGHTPADA RIQILEGWKK RLENIWDETP LYFAPSSLFD LNFQAGFLMK KEVQDEEKNK KFGLSVGHHL GKSIPTDNQI KARK</p>	
DESCRIPTION:	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.