

Recombinant Human NQO1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. NQO1-4163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	NQO1 MS Standard C13 and N15-labeled recombinant protein (NP_000894) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. This FAD-binding protein forms homodimers and reduces quinones to hydroquinones. This protein's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in this gene have been associated with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of this protein has been seen in many tumors and is also associated with Alzheimer's disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized.
Molecular Mass	30.9 kDa
AA Sequence	MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEEVSDLYAMNFNPIISRKDIT GKLKDPANFQYPAESVLAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKG WFERVFIGEFAYTYAAMYDKGPFRRSKKAVLSITTGGSGSMYSLQGIHGDMNVILWPI QSGILHFCGFQVLEPQLTYSIGHTPADARIQILEGWKKRLENIWDETPLYFAPSSLFD

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	LNFAQAGFLMKKEVQDEEKNKKFGLSVGHHLGKSIPTDNQIKARKTRTRPLEQKLISE EDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
GENE INFORMATION	
Gene Name	NQO1 NAD(P)H quinone dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	NQO1
Synonyms	NQO1; NAD(P)H dehydrogenase, quinone 1; DIA4, diaphorase (NADH/NADPH) (cytochrome b 5 reductase), NMOR1; NAD(P)H dehydrogenase [quinone] 1; DHQU; DTD; QR1; azoreductase; diaphorase-4; DT-diaphorase; dioxin-inducible 1; menadione reductase; quinone reductase 1; phyloquinone reductase; NAD(P)H:quinone oxidoreductase; NAD(P)H:quinone oxidoreductase 1; NAD(P)H:menadione oxidoreductase 1; NAD(P)H:Quinone acceptor oxidoreductase type 1; diaphorase (NADH/NADPH) (cytochrome b-5 reductase); DIA4; NMOR1; NMORI;
Gene ID	1728

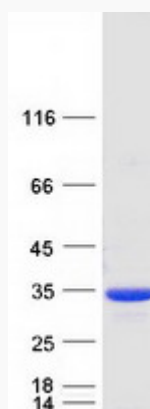
mRNA Refseq NM_000903

Protein Refseq NP_000894

MIM 125860

UniProt ID P15559

SDS-PAGE



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