

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	<p>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.</p>
Molecular Mass	30.9 kDa
AA Sequence	<p>MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEVVESDLYAMNFNPIISRKDIT GKLKDPANFQYPAESVLAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKG WFERVFIGEFAYTYAAMYDKGPFRRSKKAVLSITGGSGSMYSLQGIHGDMNVILWPI QSGILHFCGFQVLEPQLTYSIGHTPADARIQILEGWKKRLENIWDETPLYFAPSSLFD</p>

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LNFAQAGFLMKKEVQDEEKNNKFGLSVGHHLGKSIPTDNQIKARKTRTRPLEQKLISE
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; phylloquinone 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

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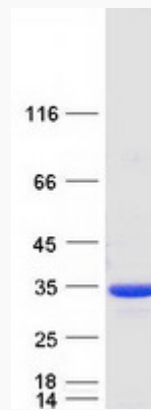
mRNA Refseq [NM_000903](#)

Protein Refseq [NP_000894](#)

MIM [125860](#)

UniProt ID [P15559](#)

SDS-PAGE



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