

Recombinant Full Length Human NQO1 Protein, GST-tagged

Cat. No. NQO1-6683HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human NQO1 full-length ORF (AAH07659, 1 a.a. - 274 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	274 amino acids
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 proteins 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 Alzheimers disease (AD). Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq</p>
Molecular Mass	55.88 kDa
AA Sequence	<p>MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEEVVEDLYAMNFNPIISRKDIT GKLKDPANFQYPAESVLAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKG WFERVFIGEFAYTYAAMYDKGPFRRSKKAVLSITTGGSGSMYSLQGIHGDMNVILWPI</p>

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QSGILHFCGFQVLEPQLTYSIGHTPADARIQILEGWKKRLENIWDETPLYFAPSSLFD
LNFQAGFLMKKEVQDEEKNNKFGLSVGHHLGKSIPTDNQIKARK

Applications
Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name NQO1 NAD(P)H dehydrogenase, quinone 1 [Homo sapiens]

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

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mRNA Refseq	NM_000903
Protein Refseq	NP_000894
MIM	125860
UniProt ID	P15559

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