

Recombinant Full Length Human NQO1 Protein, C-Flag-tagged

Cat. No. NQO1-1607HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human NQO1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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>
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	30.7 kDa
AA Sequence	<p>MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEEVVEVDLYAMNFNPIISRKIDIT GKLKDPANFQYPA ESVLAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILK GWFERVFIGEFAYTYAAMYDKGPFERS KKAVLSITTGGSGSMYSLQGIHGDMNVILW PIQSGILHFCGFQVLEPQLTYSIGHTPADARIQILEGWKK</p>

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RLENIWDETPLYFAPSSLFDLNFQAGFLMKKEVQDEEKNKKFGLSVGHHLGKSIPTD
NQIKARKTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Full Length	Full L.

GENE INFORMATION

Gene Name	NQO1 NAD(P)H quinone dehydrogenase 1 [Homo sapiens (human)]
Official Symbol	NQO1
Synonyms	DTD; QR1; DHQU; DIA4; NMOR1; NMORI
Gene ID	1728
mRNA Refseq	NM_000903.3

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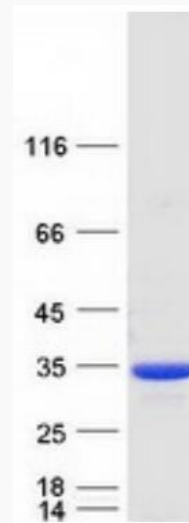
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Protein Refseq NP_000894.1

MIM 125860

UniProt ID P15559



Coomassie blue staining of purified NQO1 protein.

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