

Product datasheet for **AR09275PU-N**

NQO1 (1-274 , His-tag) Human Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | NQO1 (1-274 , His-tag) human recombinant protein, 0.1 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Sequences of amino acids: MGSSHHHHHH SSGLVPRGSH MVGRRALIVL AHSERTSFNY AMKEAAAAAL KKKGWVAVES DLYAMNFNPI ISRKDITGKL KDPANFQYPA ESVLAYKEGH LSPDIVAEQK KLEAADLVIF QFPLQWFGVP AILKGWFERV FIGEFAYTYA AMYDKGPFRRS KKAVALSITTG GSGSMYSLQG IHGDMNVILW PIQSGILHFC GFQVLEPQLT YSIGHTPADAR IQILEGWKK RLENIWDETP LYFAPSSLFD LNFQAGFLMK KEVQDEEKNK KFGLSVGHHL GKSIPTDNQI KARK |
| Tag: | His-tag |
| Concentration: | lot specific |
| Purity: | >95% pure by SDS-PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCL buffer (pH 8.0) containing 10% glycerol, 1 mM DTT |
| Endotoxin: | < 1.0 EU per 1 µg of protein (determined by LAL method) |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant NQO1 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | NP_000894 |
| Locus ID: | 1728 |
| UniProt ID: | P15559 |
| Cytogenetics: | 16q22.1 |
| Synonyms: | DHQU; DIA4; DTD; NMOR1; NMORI; QR1 |



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Summary:

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. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome

Product images: