

Product datasheet for PH300620

NQO1 (NM_000903) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	NQO1 MS Standard C13 and N15-labeled recombinant protein (NP_000894)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200620
Predicted MW:	30.9 kDa
Protein Sequence:	>RC200620 protein sequence Red=Cloning site Green=Tags(s) MVGRRALIVLAHSERTSFNYAMKEAAAAALKKKGWEVVESDLYAMNFNPIISRKDITGKLDKDPANFYQYPA ESLVAYKEGHLSPDIVAEQKKLEAADLVIFQFPLQWFGVPAILKGFERVFIGEFAYTYAAMYDKGPFRRS KKAVLSITGGSGSMYSLQGIHGMNVILWPIQSGILHFCGQVLEPQLTYSIGHTPADARIQILEGWKK RLENIWDETPLYFAPSSLFDLNFQAGFLMKKEVQDEEKNKKFGLSVGHHLGKSIPTDNQIKARK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000894
RefSeq Size:	2601
RefSeq ORF:	822
Synonyms:	DHQU; DIA4; DTD; NMOR1; NMORI; QR1
Locus ID:	1728
UniProt ID:	P15559



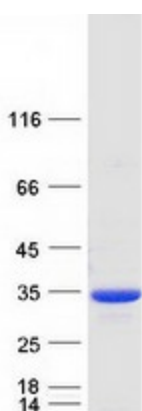
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Cytogenetics: 16q22.1

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:



Coomassie blue staining of purified NQO1 protein (Cat# [TP300620]). The protein was produced from HEK293T cells transfected with NQO1 cDNA clone (Cat# [RC200620]) using MegaTran 2.0 (Cat# [TT210002]).