Mouse NAD(P)H dehydrogenase [quinone] 1 (NQO1) ELISA kit

Product Code	CSB-EL016039MO
Abbreviation	NQO1
Target Name	NAD(P)H dehydrogenase, quinone 1
Uniprot No.	Q64669
Alias	DHQU, DIA4, DTD, NMOR1, NMORI, QR1, DT-diaphorase|NAD(P)H:Quinone acceptor oxidoreductase type 1|NAD(P)H:menadione oxidoreductase 1|NAD(P)H:quinone oxireductase|azoreductase|diaphorase (NADH/NADPH)
Product Type	ELISA Kit
Immunogen Species	Mus musculus (Mouse)
Sample Types	serum, plasma, tissue homogenates, cell lysates
Detection Range	31.25 pg/mL-2000 pg/mL
Sensitivity	7.81 pg/mL
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Metabolism
Gene Names	Nqo1
Tag Info	quantitative
Protein Description	Sandwich
Description	This Mouse NQO1 ELISA Kit was designed for the quantitative measurement of Mouse NQO1 protein in serum, plasma, tissue homogenates, cell lysates. It is a Sandwich ELISA kit, its detection range is 31.25 pg/mL-2000 pg/mL and the sensitivity is 7.81 pg/mL .
Target Details	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.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of mouse NQO1 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	97
	Range %	92-104
1:2	Average %	94
	Range %	88-97
1:4	Average %	84
	Range %	80-88
1:8	Average %	89
	Range %	83-97

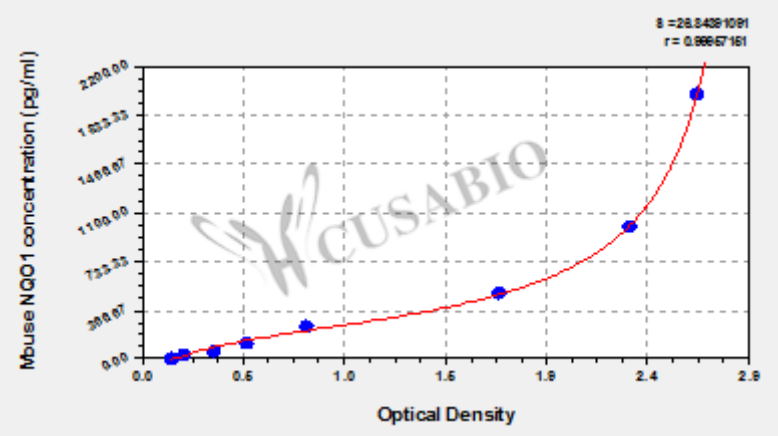
Recovery

The recovery of mouse NQO1 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	93	86-98
EDTA plasma (n=4)	99	94-106

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
2000	2.705	2.600	2.653	2.498
1000	2.304	2.371	2.338	2.183
500	1.659	1.758	1.709	1.554
250	0.794	0.795	0.795	0.640
125	0.495	0.522	0.509	0.354
62.5	0.352	0.357	0.355	0.200
31.25	0.207	0.224	0.216	0.061
0	0.150	0.160	0.155	?

Msds

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