

Datasheet for ABIN7197091 NQO1 Protein (His tag)



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Overview

Quantity:	50 µg
Target:	NQO1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NQO1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human NQO1/DT-diaphorase Protein (His Tag)
Sequence:	Met 1-Lys274
Characteristics:	A DNA sequence encoding the mature form of human NQO1 (P15559-1) (Met1-Lys274) was expressed with a polyhistide tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.

Target Details

Target:	NQO1
Alternative Name:	NQO1/DT-diaphorase (NQO1 Products)
Background:	Background: NQO1 gene is a member of the NAD(P)H dehydrogenase (quinone) family and encodes a cytoplasmic 2-electron reductase. NQO1 forms homodimers and reduces quinones to hydroquinones. NQO1's enzymatic activity prevents the one electron reduction of quinones that results in the production of radical species. Mutations in NQO1 gene have been associated

Target Details

with tardive dyskinesia (TD), an increased risk of hematotoxicity after exposure to benzene, and susceptibility to various forms of cancer. Altered expression of NQO1 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. Recent pharmacological research suggests feasibility of genotype-directed redox chemotherapeutic intervention targeting NQO1 breast cancer, a common missense genotype encoding a functionally impaired NQO1 protein.

Synonym: DHQU,DIA4,DTD,NMOR1,NMORI,QR1

Molecular Weight: 33 kDa

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.