

NQO1 rabbit-FC recombinant protein

Catalog No: YD3134

Reactivity: Human;

Purity: >90% as determined by SDS-PAGE

Gene Name: NQO1

Protein Name: NAD(P)H dehydrogenase [quinone] 1

Sequence: Amino acid:1-274, with rabbit FC tag.

P15559

Human Gene Id: 1728

Human Swiss Prot

No:

Formulation: Phosphate-buffered solution

Source: Mammalian cells

Storage Stability: -15°C to -25°C/1 year(Avoid freeze / thaw cycles)

Background: 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],

Function : catalytic activity:NAD(P)H + a quinone = NAD(P)(+) + a

hydroguinone.,cofactor:FAD.,enzyme regulation:Inhibited by

dicoumarol.,function:The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinons involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent

gamma-carboxylation of glutamate residues in prothrombin



synthesis.,induction:By dioxin.,mass spectrometry:

PubMed:11735396,miscellaneous:Quinone reductase accepts electrons from both NADH and NADPH with equal efficiency.,polymorphism:The Ser-187

polymorphism may be linked to susceptibility to forms of

cancers., similarity: Belongs to the NAD(P)H dehydrogenase (quinone)

family., subunit: Homodimer.,

Subcellular Location :

Cytoplasm, cytosol.

Expression:

Colon, Liver, Pooled,

Products Images