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AR09422PU-L Human NQO2 (1-231, His-tag) - Purified

Alternate names: NMOR2, NRH dehydrogenase [quinone] 2, NRH:quinone oxidoreductase 2, Ribosyldihydronicotinamide dehydrogenase [quinone]

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: NQO2 is a member of the NAD(P)H dehydrogenase (quinone) . The enzyme apparently serves as a quinone reductase in connection with conjugation reactions of hydroquinones involved in detoxification pathways as well as in biosynthetic processes such as the vitamin K-dependent gamma-carboxylation of glutamate residues in prothrombin synthesis. It is flavoproteins that catalyze the metabolic detoxification of quinones and their derivatives to hydroquinones. This detoxification process protects cells against quinone-induced oxidative stress, cytotoxicity and mutagenicity.

Uniprot ID: P16083

NCBI: AAH06096

GeneID: 4835

Species: Human

Source: E. coli

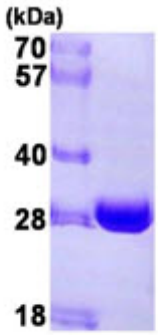
Format:
State: Liquid purified protein
Purity: >95% pure by SDS–PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT

Description: Recombinant Human NQO2 protein, fused to His-tag, was expressed in E.coli and purified by using conventional chromatography techniques.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MAGKKVLIVY AHQEPKSFNG SLKNVAVDEL SRQGCTVTVS DLYAMNFEPR ATDKDITGTL SNPEVFNYGV ETHEAYKQRS LASDITDEQK KVREADLVIF QFPLYWFSVP AILKGWMDRV LCQGFAFDIP GFYDSGLLQG KLALLSVTTG GTAEMYTKTG VNGDSRYFLW PLQHGTLHFC GFKVLAPQIS FAPEIASEEE RKGMVAAWSQ RLQTIWKEEP IPCTAHWHFG Q
Molecular weight: 28.1 kDa (251 aa), confirmed by MALDI-TOF

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.
Shelf life: one year from despatch.

General Readings:
1. Wu K., et al. (1997) Arch Biochem Biophys. 347(2):221-8.
2. Jaiswal AK., et al. (1994) J Biol Chem. 269(20):14502-8.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human NQO2, 1-231 aa, His-tagged: 15% SDS-PAGE (3 µg)