
Product Data Sheet

Product Name: NQO2 Human
 Cat. No.: GP22012
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	DHQV; DIA6; QR2; EC 1.10.99.2; NMOR2; NQO2; NRH:quinone oxidoreductase 2; NRH dehydrogenase [quinone] 2; Ribosyldihyronicotinamide dehydrogenase [quinone].		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAGKKVLIVY AHQEPKSFNG SLKNVAVDEL SRQGCTVTVS DLYAMNFEPR ATDKDITGTL SNPEVFNYGV ETHEAYKQRS LASDITDEQK KVREADLVIF QFPLYWFSVP AILKGWMDRV LCQGFAFDIP GFYDSGLLQG KLALLSVTTG GTAEMYTKTG VNGDSRYFLW PLQHGTLLHFC GFKVLAPQIS FAPEIASEEEE RKG MVAAWSQ RLQTIWKEEP IPCTAHWHFG Q.		
Formulation	NQO2 Human solution (1mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT & 10% glycerol.		

Introduction

NQO2 is a flavoprotein that catalyzes the 2-electron reduction of diverse quinones, redox dyes, and the vitamin K menadione. NQO2 mainly uses dihyronicotinamide riboside (NRH) as the electron donor. NQO2 catalyzes the metabolic detoxification of quinones and their derivatives to hydroquinones. This detoxification process protects cells against quinone-induced oxidative stress, cytotoxicity and mutagenicity.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NQO2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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chain containing 251 amino acids (1-231 a.a.) and having a molecular mass of 28.1 kDa. NQO2 protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography.

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