Creative Enzymes®

ribosyldihydronicotinamide dehydrogenase (quinone)

Cat. No. EXWM-0488

Lot. No. (See product label)

Introduction

Description A flavoprotein. Unlike EC 1.6.5.2, NAD(P)H dehydrogenase (quinone), this quinone reductase cannot use NADH or NADPH; instead it uses N-ribosyl- and N-alkyldihydronicotinamides. Polycyclic aromatic hydrocarbons, such as benz[a]anthracene, and the estrogens 17β-estradiol and diethylstilbestrol are potent inhibitors, but dicoumarol is only a very weak inhibitor. This enzyme can catalyse both 2-electron and 4-electron reductions, but one-electron acceptors, such as potassium ferricyanide, cannot be reduced.

Synonyms NRH:quinone oxidoreductase 2; NQO2; NAD(P)H:quinone oxidoreductase-2 (misleading); QR2; quinone reductase 2; N-ribosyldihydronicotinamide dehydrogenase (quinone); NAD(P)H:quinone oxidoreductase2 (misleading)

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.10.5.1

CAS No. 667919-86-0

Reaction 1-(β-D-ribofuranosyl)-1,4-dihydronicotinamide + a quinone = 1-(β-D-ribofuranosyl)nicotinamide + a quinol

Notes This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.