

NADPH:quinone reductase

Cat. No. EXWM-1594

Lot. No. (See product label)

Introduction

Description A zinc enzyme, specific for NADPH. Catalyses the one-electron reduction of certain

quinones, with the orthoquinones 1,2-naphthoquinone and 9,10-

phenanthrenequinone being the best substrates. Dicoumarol [cf. EC 1.6.5.2 NAD(P)H dehydrogenase (quinone)] and nitrofurantoin are competitive inhibitors with respect to the quinone substrate. The semiquinonefree-radical product may be non-enzymically reduced to the hydroquinone or oxidized back to quinone in the presence of O2. In some mammals, the enzyme is abundant in the lens of the eye,

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where it is identified with the protein ζ -crystallin.

Synonyms NADPH2:quinone reductase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.6.5.5

CAS No. 9032-20-6

Reaction NADPH + H+ + 2 quinone = NADP+ + 2 semiquinone

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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