

4-nitrocatechol 4-monoxygenase

Cat. No. EXWM-0765

Lot. No. (See product label)

Introduction

Description Contains FAD. The enzyme catalyses the oxidation of 4-nitrocatechol with the concomitant removal of the nitro group as nitrite. Forms a two-component system with a flavoprotein reductase. The enzymes from the bacteria *Lysinibacillus sphaericus* JS905 and *Rhodococcus* sp. strain PN1 were shown to also catalyse EC 1.14.13.29, 4-nitrophenol 2-monoxygenase while the enzyme from *Pseudomonas* sp. WBC-3 was shown to also catalyse EC 1.14.13.167, 4-nitrophenol 4-monoxygenase.

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.13.166

Reaction 4-nitrocatechol + NAD(P)H + H⁺ + O₂ = 2-hydroxy-1,4-benzoquinone + nitrite + NAD(P)⁺ + H₂O

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.