Creative Enzymes®

4-nitrocatechol 4-monooxygenase

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-monooxygenase while the enzyme from Pseudomonas sp. WBC-3 was shown to also catalyse EC 1.14.13.167, 4-nitrophenol 4-monooxygenase.

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