

## 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<sup>+</sup> + O<sub>2</sub> = 2-hydroxy-1,4-benzoquinone + nitrite + NAD(P)<sup>+</sup> + H<sub>2</sub>O

**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.